CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, December 21, 1905.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Dec.				
*29	Irrigation canal	S. F'ncisco, Cal.	P. & S.	11-23
*	Steel rolled beams	New York	S.	10-12
Jan.				
*2	Water system	Manila	P. & S.	9-21
*4	Garbage crem't'y	Lexington, Ky.	S.	11-30
*12	Sewer system	Manila	P. & S.	9-21
*15	Irrigation canal	Billings, Mont.	P. & S.	12- 7
16	Pipe sewers	Boston, Mass.	S.	11-23
20	Dredging	Guantanamo, Cuba	S.	12-21
Apr.				
*2	Port works	Chile	P. & S.	5- 4
5	Wharves	Manila, P. I.	P. & S.	12-14

*Work advertised in Engineering News.

NOTE—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Dec. 30. Electric light fixtures, etc., Vancouver Barracks, Wash ..... Dec. 21
Jan. 2. Electric light plant, Tallapoosa, Ga. ..... Dec. 21
Jan. 5. Electric wiring, Washington, D. C. ..... Dec. 7
Jan. 5. Park lighting, Milwaukee, Wis. ..... Dec. 7
Jan. 15. Electric light plant, Argenta, Ark. ..... Dec. 21
Advertised, Eng. News, Dec. 21 to Jan. 4.
No date. Gas plant, Mains, Elkader, Ia. ..... Dec. 14

BRIDGES.

Dec. 21. Bridges, Paxton, Ill ..... Dec. 14
Dec. 21. Bridge, Woodbury, N. J. ..... Dec. 14
Dec. 22. Bridge, Carlisle, Pa. ..... Dec. 7
Dec. 26. Bridges, Hastings, Neb. ..... Dec. 21
Dec. 27. Bridge, Norristown, Pa. ..... Dec. 7
Dec. 28. Bridges, Redfield, S. Dak. ..... Dec. 14
Dec. 28. Two bridges, Richmond, Ind. ..... Dec. 14
Dec. 29. Bridge, Kilbourn, Wis. ..... Dec. 14
Jan. 1. Steel bridge, Pensacola, Fla. ..... Sept. 28
Jan. 1. Bridge, steel, Pensacola, Fla. ..... Nov. 2
Jan. 2. Steel bridge, Duluth, Minn. ..... Nov. 30
Jan. 2. Bridge, Manitowoc, Wis. ..... Dec. 14
Jan. 2. Bridge, Zim, Minn. ..... Dec. 21
Jan. 2. Bridges, Lyndon, Kan. ..... Dec. 21
Jan. 3. Bridges, Oberlin, Kan. ..... Dec. 21
Jan. 3. Bridge, Pittsburg, Pa. ..... Dec. 21
Jan. 3. Bridge, Cheyenne, Okla. ..... Dec. 21
Jan. 4. Bridges, Salem, Mass. ..... Dec. 7
Jan. 5. Bridges, Vermillion, S. Dak. ..... Dec. 21
Jan. 8. Bridge, Akron, O. ..... Dec. 21
Jan. 9. Steel bridge, Chattanooga, Tenn. ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Jan. 9. Bridges, Brookings, S. Dak. ..... Dec. 14
Jan. 23. Bridge, Belgium ..... Nov. 2

BUILDINGS.

Dec. 21. Electric wiring, Rome, N. Y. ..... Dec. 14
Advertised, Eng. News, Dec. 14 and 21.
Dec. 21. Building wing, New York, N. Y. ..... Dec. 14
Dec. 21. Office building, Philadelphia, Pa. ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Dec. 22. Heating, etc., Prescott, Ariz. ..... Nov. 30
Dec. 26. Hospital, New York, N. Y. ..... Dec. 14
Dec. 26. School, Toledo, O. ..... Dec. 14
Dec. 26. Alterations, New Rochelle, N. Y. ..... Dec. 21
Dec. 26. School, Flushing, N. Y. ..... Dec. 21
Dec. 26. School, New York, N. Y. ..... Dec. 21
Dec. 27. Fire house, New York, N. Y. ..... Dec. 21
Dec. 28. Completing court-house, Greensburg, Pa. Dec. 21
Dec. 29. School, Pittsburg, Pa. ..... Dec. 21
Dec. 30. Stable, Fort Assinniboine, Mont. ..... Dec. 7
Advertised, Eng. News, Dec. 7 to Jan. 4.
Jan. 1. Court-house, Kentland, Ind. ..... Dec. 14
Jan. 1. Building, Goldsboro, N. C. ..... Dec. 21
Jan. 2. Building, Paris, Tex. ..... Dec. 21
Jan. 2. Court-house addition, Tampa, Fla. ..... Dec. 21
Jan. 2. Buildings, Riverside, Cal. ..... Nov. 30
Jan. 4. Post-office, Natchitoches, La. ..... Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Jan. 4. Library, Bloomington, Ind. ..... Nov. 23
Advertised, Eng. News, Nov. 23.
Jan. 5. Electric systems, Washington, D. C. ..... Dec. 7
Advertised, Eng. News, Dec. 7 to Jan. 11.
Jan. 5. Heating system, etc., Washington, D. C. ..... Dec. 7
Advertised, Eng. News, Dec. 7 to Jan. 11.
Jan. 5. Heating, etc., Washington, D. C. ..... Nov. 30
Jan. 5. Elevators, Washington, D. C. ..... Dec. 14
Advertised, Eng. News, Dec. 14 to 28.
Jan. 5. Steam heating, Laramine, Wyo. ..... Dec. 14
Advertised, Eng. News, Dec. 14 and 21.
Jan. 8. Glazing, etc., Washington, D. C. ..... Dec. 14
Advertised, Eng. News, Dec. 14 to Jan. 4.
Jan. 9. Building, Cincinnati, O. ..... Dec. 21
Jan. 10. Post-office, Reno, Nev. ..... Nov. 16
Jan. 11. Fire station, Delaware City, Del. ..... Dec. 21
Advertised, Eng. News, Dec. 21 to Jan. 4.
Jan. 15. Building, So. McAlester, Ind. T. ..... Nov. 23
Jan. 16. City hall, Newark, N. J. ..... Dec. 21
Jan. 31. Library plans, Toronto, Ont. ..... Nov. 23
Feb. 1. Library, Edgerton, Wis. ..... Dec. 21

WATER SUPPLY AND IRRIGATION.

Dec. 21. Pumping machinery, Fort Wayne, Ind. ..... Dec. 14
Dec. 21. Mains, grading, etc., Avalon, N. J. ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Dec. 22. Boilers in pumping station, Chicago, Ill. Dec. 14
Dec. 22. Water mains, New York, N. Y. ..... Dec. 14
Dec. 28. Water mains, New York, N. Y. ..... Dec. 21
Dec. 29. Irrigation canal, San Francisco, Cal. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 28.
Dec. 30. Pumping engine, Washington, D. C. ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 14.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.
Jan. 2. Water-works system, Piedmont, W. Va. ..... Dec. 21
Jan. 9. Water-works, Macon, Miss. ..... Dec. 21
Jan. 15. Pumping engine, Lincoln, Neb. ..... Dec. 14
Jan. 15. Water-works equipment, Argenta, Ark. Dec. 21
Advertised, Eng. News, Dec. 21 to Jan. 4.
Jan. 15. Pumping engines, Albany, N. Y. ..... Dec. 21
Advertised, Eng. News, Dec. 21 and Jan. 4.
Jan. 15. Cisterns, Key West, Fla. ..... Dec. 21
Jan. 15. Irrigation canal, Billings, Mont. ..... Dec. 7
Advertised, Eng. News, Dec. 7 to 18.
Jan. 15. Water and sewer system, Parral, Mex. ..... Dec. 14
Advertised, Eng. News, Dec. 14.
No date. Water meters, Delphi, Ind. ..... Dec. 7
Advertised, Eng. News, Dec. 7.
No date. Water-works, etc., Zionsville, Ind. ..... Dec. 21

SEWERAGE.

Dec. 21. Sewers, water mains, Muskogee, Ind. T. Nov. 30
Dec. 21. Sewer, St. Paul, Minn. ..... Dec. 21
Dec. 22. Sewers, Cincinnati, O. ..... Dec. 21
Dec. 26. Sewers, Long Island City, N. Y. ..... Dec. 21
Dec. 26. Sewers, Cleveland, O. ..... Dec. 21
Dec. 26. Sewer, Cincinnati, O. ..... Dec. 21
Dec. 27. Sewers, drains, Cincinnati, O. ..... Dec. 7
Dec. 28. Sewer, Napoleon, O. ..... Dec. 14
Dec. 30. Concrete sewer, Waterbury, Conn. ..... Dec. 14
Dec. 30. Sewage purification plant, Ft. Assiniboine, Mont. ..... Dec. 21
Dec. 30. Reconstructing sewer, Brooklyn, N. Y. ..... Dec. 21
Jan. 4. Sewer, Washington, Ia. ..... Dec. 21
Jan. 9. Sewer, Cincinnati, O. ..... Dec. 21
Jan. 12. Sewer system, Philippines ..... Sept. 21
Advertised, Eng. News.
Jan. 15. Trunk sewer, Washington, D. C. ..... Dec. 14
Advertised, Eng. News, Dec. 14 and 21.
Jan. 15. Sewer system, Texarkana, Ark. ..... Dec. 21
Feb. 1. Sewer system, St. Johns, Ore. ..... Dec. 21

STREETS AND ROADS.

Dec. 21. Street grading, etc., Avalon, N. J. ..... Dec. 14
Dec. 21. Paving, Buffalo, N. Y. ..... Dec. 14
Dec. 27. Paving, Rochester, Ind. ..... Dec. 21
Dec. 27. Paving, Brooklyn, N. Y. ..... Dec. 21
Dec. 28. Paving, Buffalo, N. Y. ..... Dec. 21
Dec. 28. Paving, Little Rock, Ark. ..... Dec. 14
Dec. 30. Paving, Seattle, Wash. ..... Dec. 21
Jan. 2. Roads, Spencer, Ind. ..... Dec. 21
No date. Paving material, Lynchburg, Va. ..... Dec. 14
Advertised, Eng. News, Dec. 14.

MISCELLANEOUS CONTRACTS.

Dec. 21. Iron, lumber, etc., New York, N. Y. ..... Dec. 14
Dec. 21. Top soil, New York, N. Y. ..... Dec. 14
Dec. 21. Fire alarm boxes, New York, N. Y. ..... Dec. 14
Dec. 22. Dredging, etc., Richmond, Va. ..... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 21.
Dec. 26. Machine, pipe, etc., Washington, D. C. ..... Nov. 30
Dec. 26. Machine tools, etc., Washington, D. C. ..... Nov. 30
Dec. 26. Levee, New Orleans, La. ..... Dec. 21
Dec. 27. Canal lock, Chicago, Ill. ..... Dec. 21
Advertised, Eng. News, Dec. 21.
Dec. 27. Excavation, Brooklyn, N. Y. ..... Dec. 14
Dec. 28. Ditches, Lebanon, Ind. ..... Dec. 21
Dec. 29. Wharf, Fort Monroe, Va. ..... Dec. 7
Advertised, Eng. News, Dec. 7 and 21.
Dec. 29. Wharf, Fort Monroe, Va. ..... Nov. 30
Dec. 30. Tunnel, Chicago, Ill. ..... Dec. 21
Advertised, Eng. News, Dec. 21.
Jan. 1. Grading, C., C., C. & St. L. Ry. ..... Dec. 21
Advertised, Eng. News, Dec. 28.
Jan. 1. Statue, Indianapolis, Ind. ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railway, Chile ..... Aug. 24
Advertised, Eng. News, Nov. 9 to Dec. 28.
Jan. 2. Machinery, Honolulu ..... Dec. 21
Jan. 3. Ditch, Iowa City, Ia. ..... Dec. 21
Jan. 3. Conduit railway, San Francisco, Cal. ..... Dec. 14
Jan. 6. Caisson, Charleston, S. C. ..... Dec. 14
Jan. 4. Garbage crematory, Lexington, Ky. ..... Nov. 30
Advertised, Eng. News, Nov. 30 to Dec. 28.
Jan. 9. Wharf work, New Zealand ..... Nov. 2
Jan. 8. Dredging, Jacksonville, Fla. ..... Dec. 14
Advertised, Eng. News, Dec. 14 to Jan. 18.
Jan. 8. Garbage crematory, Fort Barrancas, Fla. Dec. 14
Jan. 8. Wharf, Ft. Monroe, Va. ..... Dec. 21
Jan. 9. Naval supplies, Washington, D. C. ..... Dec. 21
Jan. 9. Machine tools, Washington, D. C. ..... Dec. 7
Jan. 12. Ditch work, Glencoe, Minn. ..... Nov. 30
Jan. 15. Excavation, Buffalo, N. Y. ..... Dec. 7
Advertised, Eng. News, Dec. 7 to 14.
Jan. 15. Scow, Wilmington, N. C. ..... Dec. 21
Advertised, Eng. News, Dec. 21 to Jan. 11.
Jan. 20. Dredging, Guantanamo, Cuba ..... Dec. 21
Jan. 31. Tunnel, Guanajuato, Mex. ..... Dec. 7
Apr. 5. Wharves, Manila, P. I. ..... Dec. 14
Apr. 2. Port works, Chile ..... May 4
Advertised, Eng. News, May 4, 1905 to Apr. 1, 1906.
May 1. Steel dock, Chile ..... Nov. 9
No date. Filling, Far Rockaway, N. Y. ..... Dec. 14
Advertised, Eng. News, Dec. 14.
No date. Railroad grading, etc., Tidewater Ry. Dec. 14
Advertised, Eng. News, Dec. 14 to 28.

The Advertisers in Engineering News

are prepared to submit bids for furnishing the machinery, tools or equipment for any work, no matter what the size, or where located.

The **Engineers, Technical Experts** and **Contractors** who advertise in Engineering News are also in a position to submit plans and estimates for construction work. When you want work done quickly and well place yourself in correspondence with our advertisers.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC COAST LINE.—Work is in progress on an extension of the Jacksonville & Southwestern from Anderson, Fla., northwest to Perry and the Aucilla River. It is expected that this will be completed by next June. E. B. Pleasants is Ch. Engr., at Wilmington, N. C.

ATCHISON, TOPEKA & SANTA FE.—The San Francisco "Chronicle" states that the Midway extension of the Santa Fe to McKittrick, Cal., is to be a joint railroad built by the Southern Pacific and Santa Fe, and the work of construction over one of two surveys is to be begun at once. The question whether the Southern Pacific survey or the Santa Fe survey will be accepted as the route of the road will have to be decided.

ARIZONA & CALIFORNIA (Santa Fe, Prescott & Phoenix Ry.)—We are advised that company has laid 45½ miles of new road between Jan. 1 and Dec. 31, 1905. Part of this work is now under construction. GRANT BROS. CONSTRUCTION CO., of Los Angeles, Cal., is the general contractor. There are now being surveyed 49 miles of projected line, from Mile Post 60 to Parker, Ariz. W. A. Drake is Ch. Engr., at Prescott, Ariz.

ATCHISON, TOPEKA & SANTA FE.—The McCabe & Steen Construction Co., of De Ridder, La., announces that it desires contractors for 50 miles of new work on Santa Fe extension from De Ridder, La., east. Work runs about 20,000 yds. per mile, very evenly divided. Cut and fill; pay both ways. Supplies can be delivered close to line by team road. Very low rates on laborers and outfits. Profile and all information at company's office at De Ridder.

BOISE VALLEY.—The stockholders of the Boise Valley Ry. Co. have arranged to organize a construction company with a capital of $250,000.

BUFFALO, TAYLORSTOWN & STATE LINE.—Company is reported to have been chartered in Pennsylvania to build from Taylorstown into West Virginia, connecting with a railroad partly built out of Wellsburg along Buffalo Creek to Tate Run, to be used as a coal road. N. O. Brownlee, of Claysville, Pa., is said to be interested.

BANGOR TERMINAL.—Linwood C. Tyler, Pres., Bangor, Me., states that this company, which was recently granted a charter, proposes to build a road from Bangor to Hermon, a distance of six miles. C. H. Coombs is Ch. Engr., at Bangor, Me.

BRANCH MINT RAILWAY.—Incorporated in South Dakota to build a railroad, five miles long, from Galena, Lawrence County, to the mines of Branch Mint Mining & Milling Co. Capital stock, $100,000. Incorporators: Jas. D. Hardin, Charles S. Hardin, Thomas McKay, J. C. Hartman and Norman T. Mason. Headquarters are at Galena, S. Dak.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—Bids will be received until Jan. 1, noon, by Wm. M. Duane, Supt., Cincinnati, O., on grading as follows: St. Louis Division: Double-track roadbed for grade reduction from Indianapolis to Delmar, Ind., and double-track roadbed for relocation Delmar to Lena, Ind., a total of about 4,000,000 cu. yds. of earthwork. Cincinnati Division: Double-track roadbed for relocation Middletown to Miamisburg, O., 600,000 cu. yds. of earthwork. This call for bids replaces the one noted last week. (Advertised, Engineering News.)

CHICAGO, MILWAUKEE & ST. PAUL.—It is reported that McINTOSH BROS., of Milwaukee, Wis., have been given the contract for building the extension from Evarts, S. Dak., to the Pacific Coast. Contract for steel rails has been awarded to the UNITED STATES STEEL CO. Noted on Dec. 7.

CONNELLSVILLE, UNIONTOWN & WHEELING.—It is reported that a charter has been granted in Pennsylvania to this company. The line is to be 75 miles long. Capital stock is $750,000. The incorporators are H. B. Voorhees, J. G. Richardson, T. B. Franklin, H. S. Benedict, W. J. Williamson, J. J. Foster, J. J. McCann, W. B. Lynn and E. H. Stein. W. B. Lynn is the Pres. and H. B. Voorhees, J. C. Richardson, T. B. Franklin, H. S. Benedict, W. J. Williamson, E. H. Stein are the directors, all of Philadelphia, Pa.

CALIFORNIA INLAND EMPIRE.—Company has been organized to build a railroad from Caspar, Wyo., westerly through Wyoming and Idaho to Oregon state line and thence to Alturas and Sausalito, Cal. Frank L. Evans, of San Francisco, Cal., who is interested in the promotion of the project, has applied to Town Trustees of Sausalito for right-of-way. The San Francisco "Call" states that the company will be incorporated with a capital of $70,000,000 under the laws of Arizona and will be backed by leading Eastern capitalists. The road will run from Boise City, Idaho, to Sausalito, a distance of 1,800 miles, then by ferry six miles to San Francisco. From a point near Red Bluff, Cal., there will be a branch to Eureka, Humboldt County. A direct route to San Francisco Bay will be practically maintained. It will place the coast in closer touch with the fertile fields of the Palouse wheat district in Washington, tap the lumber and heavily producing mining country. Three large lumber mills in California are owned by the projectors and the railroad will have the ore output of several mines to carry to San Francisco.

DALTON & ALLENDALE.—A charter will be applied for in Georgia for a company which will build a railroad under this name, from Dalton to Fort Mountain, Ga. The Incorporators are John D. Follett, of Cincinnati, O.; Robert L. Wayman, of Chattanooga, Tenn.; J. F. Allen, of Murray County, Georgia; J. M. Sanders, J. A. Longley, M. H. Williams, W. R. Cannon, W. M. Sapp, H. C. Hamilton, J. K. Farrar, H. B. Farrar and F. F. Farrar, all of Dalton, Ga.

DEERING SOUTHWESTERN.—This company, which now operates a freight line from Deering, Mo., to Camp, a distance of six miles, has filed an amendment to its charter providing for an extension from its western terminus south in Dunklin County to the state line, about 10 miles. Previously noted. F. B. Montgomery is Gen. Mgr., at 7 Monroe St., Chicago. B. E. Metcalf is Secy., at Deering, Mo.

GAINESVILLE MIDLAND.—The contract for grading this road has been awarded to the GWATHMEY-MACKALL ENGINEERING CO., of Norfolk, Va. The Gwathmey-Mackall Engineering Co. was recently incorporated at Norfolk, Va., by W. W. Gwathmey, Pres.; E. T. Gwathmey, Secy.; C. G. Mackall, Treas., all of Norfolk, Va. Capital stock is $50,000. Objects and purposes: To do a general engineering, contracting and construction business. On Nov. 16 it was noted that a contract had been awarded to the Gainesville & Athens Construction Co., of which W. W. Mackall is Pres., at Savannah, Ga., to build an extension from Jefferson to Athens, Ga., 19 miles. Stockholders recently voted to increase the capital stock from $250,000 to $550,000. E. L. Douglass is Gen. Mgr., at Gainesville, Ga.

GRAND TRUNK Company may double-track its line between St. Hubert and Ste. Rosalie, Que., 28 miles.

INDIAN TERRITORY.—The Duncan Ten Thousand Club of Duncan, Ind. T., will negotiate for the construction of a railroad into the city. B. F. Ridge is Chn., and R. A. Edwards, Secy. Executive committee are J. W. Whisenant, J. N. Duncan, A. R. Biggs, Frank Fuqua, R. J. Allen, J. T. Doak and W. I. Gilbert.

KINGMAN COAL & MINING COMPANY.—It is reported that this company, which has been incorporated in Indiana with a capital stock of $1,000,000, and which owns 3,000 acres of coal lands in Parke and Fountain Counties, plans to build a railroad from Crawfordsville, Ind., west to Danville, Ill. William G. Earle, of Chicago, Ill., is Pres. of the company.

KANSAS CITY, MEXICO & ORIENT.—M. P. Paret, Ch. Engr., Kansas City, Mo., has announced, according to an exchange that the K. C. M. & O. will have laid track as follows by the end of the present year: "Between Fairview and Custer City, Okla., 50 miles; between Sweetwater and Knox City, Tex., 75 miles; between Las Trancas and San Sostenes, east of Chihuahua, State of Chihuahua, Mexico, 41 miles; between the Guerro River and Bocoyna, in State of Chihuahua, Mexico, this being west of Chihuahua and west of Minaca, 50 miles; between Fuerte and Las Hornillas, State of Sonora, ten miles. We may possibly lay more than this and at other points before the end of the year. Next year we expect to complete the line easterly from Wichita, Kan., probably to Emporia, and possibly to Osage City. We also expect to complete the line southwardly from Custer City to a connection with the line coming northwardly from Sweetwater, Tex., so that by the end of 1906 we may have a continuous line from Sweetwater, Tex., to Emporia or Osage City, Kan. In Old Mexico and east of Chihuahua we probably will complete 50 more kilometers east from San Sostenes, if not 100 kilometers. Also, west from Bocoyna we will also probably complete a second 100 kilometers, or say, 60 miles additional in the mountains. On the west coast, easterly from Las Hornillas, during the year 1906, we will probably have the line extended to La Junta, a point about 200 kilometers from Topolobampo. There are strong prospects of our being in a position to finish during the year 1906 several hundred miles more of railroad than as above outlined, but at this time cannot speak definitely."

MUNISING R. R.—This company has amended its articles of incorporation in Michigan so as to provide for the construction of branches from Little Lake station to Austin and Princeton mines, a distance of about seven miles; from near Munising Bay in a northeasterly direction almost parallel with the shore of Lake Superior to a point in Alger County, about 25 miles, and from its main line to a connection with the Delta Lumber Co.'s road in Schoolcraft County, a distance of about 24 miles.

MISSOURI, KANSAS & TEXAS.—It is reported that this company will undertake the construction of between 150 miles and 200 miles of new line with a terminal at Aransas Pass, Tex. The new lines would be located in the eastern section of Texas. J. W. Petheram is Ch. Engr., at Dallas, Tex.

OKLAHOMA & NORTHWESTERN. — A press report states that George Knapp, Pres. of the O. & N. W. Ry., will incorporate the Knapp Construction Co. to build this proposed line from Oklahoma City, Okla., to Kingfisher and also from Chickasha, Ind. T., to Fort Supply, beyond which point the line will run into Colorado. A report from Guthrie, Okla., states that the Texas, Oklahoma & Northwestern Construction Co., of Taloga, Okla., has been chartered with $200,000 capital by Henry Knapp and R. D. Campbell, of New York; Foster Hooper, of Boston, Mass.; George E. Black and H. F. Schwartz, of Taloga; and John Deming, of Guthrie.

QUEEN & CRESCENT.—We are informed that the DAILEY CONSTRUCTION CO., of 940 Drexel Bldg., Philadelphia, Pa., has been awarded the contract for work on this system, at Stearns, Ky., where the headquarters will be located during the work.

QUEBEC SOUTHERN.—This road has been purchased by the Delaware & Hudson Ry., and the construction of a connecting line between Noyau Junction and Rouses Point probably will be undertaken. H. A. Hodge is Pres., at Montreal, Que. G. C. Dessaulles is Receiver.

SEABOARD AIR LINE.—J. M. Barr, Pres. of the Seaboard Air Line, has denied the press report that the company has let a contract for a line from Sarasota, Fla., to Charlotte Harbor, Fla. This was noted in Engineering News last week.

TEXAS.—The Railroad Commission of Texas, in its annual report, states that 785 miles of road are now in process of construction in that state and will be completed within two years. Work is progressing as follows: Beaumont & Great Northern, Trinity to Onalaska, 25 miles; Galveston, Harrisburg & San Antonio, Stockdale to Cuero, 45 miles; Houston & Texas Central, Mexia to Navasota, 100 miles; St. Louis, Brownsville & Mexico, between Algoa and Refugio, 140 miles; Kansas City, Mexico & Orient, between Red River and San Angelo, 225 miles; Orange & Northwestern, Buna to Newton, 30 miles; Trinity & Brazos Valley Mexia to Houston, 160 miles, and Wichita Valley, Seymour to Stamford, 60 miles. Texas increased in railroad mileage in 14 years 3,001 miles, an average of about 221 miles a year, or 35.7%, while the increase in the United States for that period was 28.8%. L. J. Storey, Austin, Tex., is Chn. of Comn.

UNION PACIFIC.—KILPATRICK BROS. & COLLINS, of Beatrice, Neb., have been awarded contracts for double-tracking the line between Green River and Lookout, Wyo., and between Hancock and Point of Rocks, Wyo., it is reported. The same firm has been awarded the contract for building the Omaha cutoff between Omaha and Fremont, Neb., 12 miles in length. Practically all right-of-way is reported secured for the line which the company proposes to build along the North Platte River in Nebraska, from Hershey to Northport, 118 miles. An extension from Stromberg to Central City, Neb., 22 miles, is proposed.

VANDERBILT TIMBER, MINING & SOUTHWESTERN.—Governor Edward C. Stokes, of New Jersey is reported to be interested in plan to extend the Vanderbilt Timber, Mining & Southwestern Ry., which runs from Tallapoosa to Hopewell, Ala., and which it is proposed to extend through to Montgomery, Ala. George O. Vanderbilt is Pres.

WESTERN PACIFIC.—A press report states that this company has let contracts for building 359 miles and has eleven miles under construction in California, and has also let contracts for 110 additional miles in Utah, divided as follows: From Oakland, Cal., to the California-Nevada state line, 370 miles, and from near Salt Lake City, Utah, to a point near the Utah-Nevada line, 110 miles. The contractors are: THE UTAH CONSTRUCTION CO., of Ogden, Utah, 110 miles in Utah and 174 miles in California; E. B. & A. L. STONE, of Oakland, Cal., 185 miles in California. The company is also making surveys from the Utah-Nevada state line to the Nevada-California line, 429 miles. ARTHUR THORNTON, of New Hope, Cal., is reported to have been awarded a contract for 12 miles of line, beginning at the Mokelumne River and extending toward Stockton, Cal.

CANADA.—See under Electric Railways.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

SOMERVILLE, MASS.—The highway committee of the Board of Aldermen will pass upon the proposed Lowell & Boston Interurban Electric R. R. Co.'s line through Somerville. At a public hearing held on Dec. 14 there was no remonstrance against the proposed erection of 1¼ miles of double track elevated railroad on Myrtle Ave. The railroad company proposes to run trains of three cars, with combination baggage, at a maximum rate of from 50 to 60 miles an hour, from Sullivan Sq., Boston, to Lowell. The structure to be erected in Somerville will be similar to the Boston elevated, except that the roadbed will be of six ins. of crushed stone instead of wooden sleepers. Noted last week. Prof. Wm. L. Hooper and Secretary Harry G. Chase, of Tufts College, Medford, Mass., are interested. Sidney B. Keene is Pres. Bd. Aldermen.

NAUGATUCK, CONN.—The preliminary work on the roadbed for the line which the Naugatuck Valley Electric Ry. Co. is to construct south through the Naugatuck Valley to Beacon Falls and thence to Seymour has begun. It is expected that the line will be ready for public traffic not later than July 1, 1906. The company, which has an authorized capital stock of $1,000,000, is controlled by the Connecticut Railway & Lighting Co., with whose tracks it will effect junctions at both the Naugatuck and Seymour terminals.

NEW YORK, N. Y.—A tentative franchise has been granted by the Board of Estimate and Apportionment to the Bronx, New York & Port Chester R. R. Co. A hearing will be held on Jan. 19, 1906. The company is required to commence work within a reasonable time and to expend at least $1,000,000 within the first five years. It cannot make any sale or mortgage of its property to any street railway system now in existence. No grade crossings are allowed.

NIAGARA FALLS, N. Y.—W. K. Vanderbilt is reported to have confirmed the report that the New York Central & Hudson River R. R. Co. had contracted with the Niagara, Lockport & Ontario Power Co. for electricity to be used in the electrification of the New York Central lines in western New York. The Falls branch, the Auburn road and parts of the West Shore will be electrified.

TRENTON, N. J.—The Atlantic Coast Electric Ry. Co. has been incorporated in New Jersey, with $1,000,000 capital stock, to build an electric railway along the New Jersey seashore. The incorporators are Charles L. Spier, William Evarts Benjamin and Henry H. Rogers. S. F. Hardrigg, of Asbury Park, is representative.

CAMDEN, N. J.—The Pennsylvania R. R. Co. has awarded the general contract to the GENERAL ELECTRIC CO., 44 Broad St., New York City, for equipment and electrification of the Atlantic City & Shore Ry. division. The line is 64 miles in length, from Camden to Atlantic City, N. J. Samuel Reo, Third vice-Pres., at Philadelphia, is in charge of the project. Full details will be given next week.

SEELEYVILLE, PA.—W. A. Heller, Danville, Pa., is reported to be promoting the construction of a new electric railway between Seeleyville and Hawley. The company will be known as the [illegible] Hawley Electric Railway [illegible] twelve miles in length, [illegible] Seeleyville and Hawley, [illegible] at Honesdale. A charter [illegible] plied for, and it is said th[illegible] on the new road in the sp[illegible] be $100,000.

SHAMOKIN, PA.—The S[illegible] Carmel Electric Ry. Co. is [illegible] for the proposed line betw[illegible] and Mount Carmel, Pa. [illegible] Mount Carmel, is Mgr.

SOUTH BETHLEHEM, PA. [illegible] an electric railway from [illegible] to Centre Valley was secure[illegible] man, A. L. Cope and W. [illegible] borough, several years ago. [illegible] ported that the project has [illegible] Hugh E. Crilly, of Allentow[illegible] would connect with the Ph[illegible] high Valley Traction Co.'s [illegible] Valley.

NORTHUMBERLAND, PA. [illegible] vised by D. A. Hegarty, Ch. E[illegible] St., New York City, that th[illegible] land County Traction Co. will [illegible] extension from East Lewisbu[illegible] berland, Pa. Work will be do[illegible] pany's construction departmen[illegible] 1424 Chestnut St., Philadelph[illegible]

ALTOONA, PA.—We are info[illegible] Patterson, 427 Fourth Ave., [illegible] Pres. of the Southern Tractio[illegible] Co., that surveys are completed [illegible] way obtained for this line. [illegible] yet secured. Contracts will be [illegible] days. Capital stock is $400,000 [illegible] $750,000. The road will be 40 [illegible] extending to Altoona, Hollidays[illegible] cansville, Roaring Springs, and [illegible] C. Givin, Altoona, is Ch. Engr.

RICHMOND, VA.—PHILLIPS & ALPORT and H. H. GEORGE, JR., have been awarded the contracts for grading and preparation for track laying of the Richmond-Ashland division of the Richmond & Chesapeake Bay Ry. Co. The contract calls for the completion of work by early summer. Both Phillips & Alport and H. H. George are Richmond contractors. The first-named firm has the contract from Brook turnpike to Hungary Road, and H. H. George will complete the road from that point to Ashland. The track laying will be done by forces employed by the Richmond & Chesapeake Bay Railway Co. Wm. Northup is Gen. Mgr., at Richmond.

NORFOLK, VA.—We are advised by M. C. Elliott, Secy. of the Ocean View & Pine Beach Ry. Co., that right-of-way is obtained and surveys completed for this line. Bridge rights also are secured. Sale of this company to northern interests is nearly perfected. H. L. Page, Norfolk, is Pres. It will be five miles long.

MORGANTOWN, W. VA.—We are informed that preliminary survey, maps and two-thirds of right-of-way are secured for the Dunkard Valley R. R. The line is to be about 25 miles long, from Morgantown to Cassville, Blacksville, Wadestown and Mannington, W. Va. George W. Johnson, Morgantown, is Surveyor. D. Utt is Ch. Engr., at Morgantown. L. L. Thomas is Pres., at Blacksville.

HICKORY, N. C.—The matter of constructing and equipping a street and interurban railway at Hickory, N. C., is in the control of the Municipal Bond & Securities Co., 170 Broadway, New York City.

MOBILE, ALA.—The Mobile Light & R. R. Co. is reported to be planning an extension to Magazine Point via Plateau. H. B. Rockwell is Gen. Supt.

LONG BEACH, MISS.—The town has granted a franchise to the Gulfport & Mississippi Coast Traction Co., for 25 years, to construct an electric line. J. A. Jones, at Gulfport, Miss., is Gen. Mgr.

DEFIANCE, O.—W. P. Engle, Pres. of the Defiance Street Ry. Co., has applied for a franchise to build an extension on Clinton St. to the city limits. This is desired to give entrance to the city for the Cincinnati, Toledo & Detroit Short Line, a portion of which is now under construction. I. W. Miller is Ch. Engr.

CLEVELAND, O.—The Board of Public Service has granted a permit to the Cleveland Electric Ry. Co. to build four loops in the Public Square. Est. cost is $90,000. E. J. Cook is Ch. Engr.

VINCENNES, IND.—KOHLER BROS., of Chicago, Ill., will build and finance the electric railway from Vincennes to Loogootee. W. N. Walmsley is Ch. Engr. for firm of Kohler Bros. A company was organized recently, with a capital of $1,000,000. W. H. Schott, of Chicago, is Pres.; A. F. Cabel, vice-Pres.; S. C. Eskridge, Secy.; Louis Read, Treas.; and A. J. Padgett, Gen. Attorney. J. L. Ebner, of Vincennes, and J. B. Seals, of Loogootee, complete the directorate.

NEW ALBANY, IND.—The Louisville & Northern Ry. & Light Co. has been incorporated in Indiana, with $5,000,000 capital, to build a system of electric lines in Southern Indiana to reach Louisville, Ky., over the line of the Louisville & Southern Indiana Traction Co. The first line to be constructed will be from Jeffersonville to Sellersburg, a distance of 12 miles, and this will be followed by lines to Corydon, French Lick and West Baden, and other lines covering the southern portion of the state.

SPRINGFIELD, ILL.—The construction of the Springfield & Northeastern Interurban Ry., between this city and Lincoln, may be undertaken by George M. Skelly, Pres. of the United States Construction Co., of Springfield.

EAST ST. LOUIS, ILL.—The city council has reported favorably on the ordinance granting the Illinois & Indiana Electric Ry. Co. permission to construct, operate and maintain an electric railway in East St. Louis. The company will construct its lines, beginnnig at 27th [illegible] and Market Sts., thence on Market St. [illegible] Fourth St., thence on Fourth St. to Broadway. The second line will begin at the city limits and

Falling rings Ave., on Falling Springs Ave. to nth St., on Tenth St. to Market Ave., w e it will connect with the line above i oned. Both lines will be double track, will be ultimately extended into the sub n districts. W. J. Cracken is in charge the Engineering Dept.

CHICO , ILL.—The Chicago & Milwaukee El c Ry. Co. has recently completed its lin from Evanston, Ill., to Kenosha, Wis., w e connection is made with the line of the wauke Electric Railway & Light Co. is Milwaukee. It is said that next spring Chicago & Milwaukee Co. will build own line from Kenosha to Milwaukee, also an extension south from Evans to a connection with the Chicago street lway system, over which its cars will b n to the business center of the city. The i nt line will also be largely improve d rebuilt next year. F. J. Gerlaghty, Highwood, Ill., is Ch. Engr.

MES ITE, TEXAS.—A. C. Nafus, of Mesquite, reported as saying that work on the p osed electric railway from Mesquite to Da would begin about January 1.

GU RIE, OKLA.—The Logan County Board of Commissioners has granted a franchise Thomas A. Smith to construct an electric line northward from Guthrie, to be known as the Newkirk, Tonkawa & Southern Electric Railway. The company must deposit a bond for $1,000 before the franchise is effective. The proposed line will run through Logan, Noble and Kay counties, and is intended to connect here with the Guthrie-Oklahoma City Interurban, and at Chilocco with the Gueda Springs Electric line.

CANYON CITY, COLO.—Negotiations have been made between the Canyon City Merchants' Association, and FRANK S. GRANGER, of San Jose, Cal., by which this city is to have an electric railway system connecting it with Florence, seven miles distant, as well as its immediate suburbs. Between 16 and 17 miles of line will be built. Mr. Granger expects to begin work as soon as the necessary franchises can be obtained, and other preliminaries attended to, it is reported.

TACOMA, WASH.—W. S. Dimmick, Mgr., has notified the city officials that the Tacoma Railway & Power Co. has agreed on a plan for extending its Point Defiance line through the business section of Tacoma, at an estimated cost of $60,000.

LA GRANDE, ORE.—Grading will begin at once on the Central Ry. The p oposed railway is to be an electric line, beginning at Union, Ore., and circling the valley. It will touch at Hot Lake, La Grande, Summerville, Elgin and Cove, and thence back to Union. No arrangements have been made for power, but it is not thought likely that the company will build its own plant, as the amount of power used the first few years will not exceed 500 HP. The officers of the company are: Alonzo Cleaver, Union, Ore., Pres.; vice-Pres., Charles F. Mitchell, New York; Treas., Charles E. Graham, New Haven, Conn.; Secy., Thomas Madden, New Haven; directors, Alonzo Cleaver, Union; Charles F. Mitchell, New York; Charles E. Graham, New Haven; V. T. Hammer, Bradford, Conn.; D. R. Alling, New Haven; Thomas J. Madden, New Haven; Robert A. Marr, T. W. Davidson and Arthur Browne, of Union.

SAN DIEGO, CAL.—D. C. Collier, Jr., will be granted a franchise to construct a double track electric railway on several streets in this city.

At a recent meeting of the council a street railway franchise in the eastern part of the city was bid in for Lloyd S. Akerman, of San Francisco, for $6,000. The line will run from 25th and B Sts. to City Heights. Two other franchises for street railways were sold, one to E. B. Webster, of this city, and the other to H. A. Howard. Extension for one year was granted on the franchise of the San Diego Eastern Railway Co.

VENTURA, CAL.—It is reported that the Independent R. R. Co. will build an electric railway from Ventura to Santa Barbara. R. A. P. Phillips is Pres.; George Lemcke is first vice-Pres.; E. C. Herlow is second vice-Pres.; and H. W. Lemcke is Gen. Mgr.

CANADA.—The American Consul at Chatham, Ont., in report on railroad construction now in progress or contemplated in the Dominion of Canada, states that "Canada is entering upon a period of extensive railroad building. The extensions that have been undertaken, and to be completed in from three to five years, will cover a total of 7,444 miles and an estimated expenditure of $182,000,000. Contracts have been already let covering 75 per cent. of this total, and the remainder will be put under contract as soon as the surveys are completed. The total mileage and estimated cost of construction is distributed as follows: Canadian Pacific, 1,844 miles, at a cost of $41,650,000; Canadian Northern, 1,280 miles, at a cost of $29,000,000; Grand Trunk Pacific, 3,720 miles, at a cost of $101,600,000; Grand Trunk, 200 miles, at a cost of $4,000,000; Northern Pacific, 300 miles, at a cost of $9,000,000; Toronto to Niagara (electric), 100 miles, at a cost of $3,000,000. In connection with this statement must be noted the beginning of electric railroad building in the peninsula of Ontario, and the indications that it will be greatly extended during the next two or three years. The Chatham, Wallaceburg & Lake Erie Railroad has laid 20 miles of track from Chatham to Wallaceburg this year, and will build 20 miles more from Chatham to Erie Beach next year. Over this line it will operate 20 cars. The Windsor & Essex is securing right of way for a line from Chatham to Windsor, and expects to begin construction work next year. The Windsor, Essex & Lake Shore has a large force of men at work grading between Windsor and Kingsville, and with the exception of three miles of sandy road the work has been completed between Kingsville and Essex. A large gang of men has commenced grading north of Essex, and the contractor expects to have the entire line between Windsor and Kingsville ready for the road by the latter part of this month. Ties are now being unloaded at Kingsville. Preliminary steps have been taken for the organization of a company to build an electric railway line between Sarnia and London, a distance of about 60 miles. The standard 80-lb. rail will be put down on these roads, and it is estimated that a total approximating 1,200,000 tons will be needed for the work during the next four years, together with 400,000 tons of small sections for car and locomotive building, switches, trestles, and bridges. The cost of equipping the lines when built is placed at $75,000,000, which, with the cost of road construction, makes a grand total of over $250,000,000. During the coming year Canadian railways will require over 100,000 tons of bridge material for renewing and strengthening bridges. The requirements of the Grand Trunk Railway alone for this purpose will amount to 30,000 tons."

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

WOBURN, MASS.—An ordinance is before the Board of Aldermen, authorizing the establishment of municipal lighting plant.

CENTRAL FALLS, R. I.—Council will take up the matter of appropriating $75,000 for installing a municipal lighting plant in this city.

SYRACUSE, N. Y.—The Syracuse Rapid Transit Ry. Co. has decided to order ten more double-truck cars, of the convertible type, to be delivered next June. The contract for the new transforming station to convert Niagara power for use on this company's system has been awarded to the WESTINGHOUSE ELECTRIC CO., Pittsburg, Pa.

OSWEGO, N. Y.—Council has granted the Citizens' Electric Light Co. a franchise. John C. Knight, of Oswego, is the promoter. When permission is granted to the company by the State Gas and Electricity Commission contracts will be awarded.

CAMDEN, N. J.—The Lexington & Interurban Railways Co. has been incorporated in New Jersey for the purpose of constructing urban and interurban railways, and to establish an electric lighting plant. The capital is $4,000,000. The incorporators, all of Camden, N. J., are John A. MacPeak, F. R. Hansell and Geo. H. B. Martin.

ATLANTIC CITY, N. J.—The Central Passenger Ry. Co. will erect a large new power plant here at Virginia and Mediterranean Aves.

BIRDSBORO, PA.—The E. & G. Brooke Iron Co., of Reading, Pa., will erect an electric light plant on the Schuylkill River at this point.

WASHINGTON, D. C.—Bernard Green, Supt. of the Congressional Library and Arch. of the new buildings to be erected for the Department of Agriculture and for the new National Museum building, has transmitted to Congress preliminary plans for the construction of a power plant with distributing mains for heat, steam and power to the White House, Treasury, State, War and Navy, Washington Monument, Bureau of Engraving and Printing, Post-office, Smithsonian, the present National Museum, Army Medical Museum, and the new Municipal, Department of Agriculture and National Museum buildings. The superintendent estimates that the plant would save annually $115,882. Under existing conditions 85 boilers burn 35,000 tons of coal annually and require 185 men, while under the new system but ten biiers would require 25,000 tons of coal and 90 men. The space recovered would be 600,000 cu. ft. The central plant would be erected at 15th and B Sts., N. W., at a cost of $1,100,000.

ROANOKE, VA.—The Norfolk & Western Ry. Co. will erect a new power house at Bluefield to cost $45,000. J. R. Schick is Engr. of construction at Roanoke.

LURAY, VA.—The Shenandoah River Power & Light Co. has been organized at this place. T. J. Berry, of Luray is Pres. The company is building a dam across the Shenandoah River, two miles west of Luray, which will develop from 600 to 1,200 HP. It will furnish light and power to Luray and Page Counties.

ALEXANDRIA, VA.—We are informed that at a recent meeting of the city council the question arose as to the advisability of disposing of the franchise for lighting the city with electricity to private parties. The Engineering News for October 19 contained the bids received by the council on Oct. 10 from W. T. Barstow, who proposed to set up a separate plant in Alexandria, and from Messrs. Howell & Sinclair, who proposed to obtain power from the Potomac Electric Co., of Washington, D. C. It was voted to indefinitely postpone all action on the lighting question.

CEMENT, GA.—Howard Hydraulic Cement Co., Cement, Ga., is in the market for complete equipment for lighting plant by electricity or other means.

TALLAPOOSA, GA.—Bids are asked until Jan. 2 for machinery, material and installing complete an electric light plant. The proposed plant embraces one 66-in. by 18-ft. high-pressure boiler and stack, one 100-KW. A. C. unit generator belted to Corliss engine, also one generator direct connected to automatic engine; six arcs and 74 50-c. p. series incandescents, 1,000-light transformers and 1 meter capacity and pole line. For specifications, form of proposal, etc., address G. W. W. Shepperd, Mayor, or J. B. McCrary, Engr., Senoia, Ga.

SPARTA, GA.—The contract, for the erection of the electric light plant was awarded to the ELECTRICAL SUPPLY CO., of Savannah.

BRIGHTON, ALA.—The Birmingham Ry., Light & Power Co. will establish an electric light plant here.

GADSDEN, ALA.—A municipal gas plant will soon be installed here at a cost of $100,000.

ANNISTON, ALA.—It is reported that the Coosa River Power Co. has been incorporated by Roswell H. Cobb, of Anniston, and others, to develop the water power of the Coosa River, constructing dam and building power house for its transmission by electricity to Anniston and vicinity. The Ambursen Hydraulic Construction Co., 176 Federal St., Boston, Mass., is reported as having made preliminary surveys for a steel-concrete dam and to be the hydraulic engineer in charge of the work.

CINCINNATI, O.—The Cincinnati Gas & Electric Co. has entered into an arrangement with the Triple State Gas Co. to supply natural gas for Cincinnati. A new company is to be formed with a capital of $10,000,000.

ZIONVILLE, IND.—See under Water-Works.

DETROIT, MICH.—Bids were opened on Dec. 11 by the public lighting commission for 202 new enclosed arc lamps, one 150-KW. transformer, and four automatic regulators. The Western Electric Co., of Chicago, was the lowest bidder, at $4,148.

PORTLAND, MICH.—A. E. Dunn, of St. Louis, Mo., is reported to be considering the establishing of a gas plant at Portland for heating and domestic use.

FAIRVIEW, MICH.—THE PENINSULAR LIGHTING CO., of Detroit, has been awarded the contract for lighting the village of Fairview.

DIXON, ILL.—The Chicago "Inter-Ocean" states that another big dam is to be built across Rock River, of concrete and cement, just above Grand Detour by the Sandusky Cement Co. for the purpose of securing electric power for their cement mills east of this city. The plans provide for an expenditure of over $1,000,000.

BRILLION, WIS.—The Brillion Electric Lighting Co. has been incorporated with a capital of $20,000 to establish a new lighting plant here by C. W. Behnke and others of Brillion.

ACKLEY, IA.—The town will soon have a new municipal lighting plant.

BELLEVILLE, KAN.—The citizens have decided to have the city erect a light plant to cost $20,000.

PAOLA, KAN.—We are informed by B. T. Riley, City Atty., that this city "contemplates the purchase of the water plant here and also the construction of an electric light plant, bonds for both of which have been voted. It is contemplated that both plants will be run by one power, and that it will be necessary to consummate the deal with the water company first. In all probability the light proposition will not receive attention before January next. We are hardly ready to consider the sale of bonds as the Water Company will probably receive 20-year 4% bonds in payment for the water plant, unless a better offer is made."

KIRKSVILLE, MO.—The Kirksville Gas, Heat and Electric Co. has filed articles of incorporation. The capital stock is $30,000, one-half paid. The stockholders are: B. F. Henry, Fred Grassle, Charles Sands, F. J. Storm, W. P. Foster and P. C. Mills.

ARGENTA, ARK.—Bids are asked until noon, Jan. 15, for purchase of all material for construction of water-works and electric light plant. Specifications can be had by addressing the O'Neil Engineering Co., 505 North Texas Bldg., Dallas, Tex. Specifications may be seen at office of Engineering News, 220 Broadway, New York city. (Advertised, Engineering News.) Estimated cost is $100,000.

PALESTINE, TEX.—A 50-year franchise has been granted to W. H. McGoldrick and associates of Washington, D. C., for a gas plant.

LAWTON, OKLA.—The council has granted Joseph W. Planck and Northrop Moore, who represent a Kansas City firm, a 20-year franchise to supply the city with manufactured and natural gas. The mayor can give information, it is reported.

SHAWNEE, OKLA.—It is stated that Sinclair Mainland, of Green Bay, Wis.; A. E. Thompson and T. W. Odell, of Oshkosh, Wis., and associates have purchased and will operate the plant of the Shawnee Gas Co. It was reported recently that this company would build a coal, gas, coke and tar plant at a cost of $150,000.

TUMTUM, WASH.—Sparks Bros., of Spokane, Wash., have purchased a site at Tumtum, it is reported, for a power plant.

ARLINGTON, WASH.—See under Water-Works.

BELLINGHAM, WASH.—Water Board has adopted plans for construction of a new pipe line, penstock and turbine water wheel for the Whatcom Falls property owned by the city. Power at the falls will be increased so as to use it for a pumping station. City comptroller will advertise for bids for the work.

EVERETT, WASH.—Clay Allen, of Eital Bldg., Seattle, Wash., representing the Snoqualmie Light & Power Co., has been awarded franchise by the city of Everett for lighting that city for three years with electricity. Plant will be installed by March first.

VANCOUVER BARRACKS, WASH.—Bids are asked until 11 a. m., Dec. 30, for furnishing electric light fixtures, wattmeters and transformer for three buildings. Address Constructing Q. M.

PORTLAND, ORE.—The Cascade Power Co. has been incorporated to utilize the creeks and streams on Mount Hood for power purposes. E. R. Richardson and A. C. Churchill, of Portland, are among the incorporators.

The Banfield & Veysey Fuel Co. will erect a plant to furnish heat through pipes to the business district of the city. Estimated cost is $500,000.

UMATILLA, ORE.—The Umatilla Power Co. has been granted right-of-way for its pipe line through the Wenoka forest reserve and also site for power plant. Company will generate 700 HP. at lowest stage of north fork of Umatilla River. Cost of project estimated at $85,000.

SAN DIEGO, CAL.—The San Diego Electric Street Car Co. are planning a large new power plant here.

LOS ANGELES, CAL.—A. E. Poole, of Los Angeles, is said to be interested in plan to develop power and build a large power plant in southern California. Estimated cost is $800,000.

AURORA, ORE.—The town is planning to install a municipal lighting plant.

VISALIA, CAL.—The Mt. Whitney Power Co. will rebuild its entire system and power plant in this city next year, it is reported. An auxiliary steam plant may also be built. D. M. Maddox, Visalia, is Mgr.

VACAVILLE, CAL.—A company will lay a natural gas pipe line from Suisun to Vacaville, next year, it is reported by local newspapers.

RENO, NEV.—W. D. Arnett, of Reno, a mining engineer, has appropriated water on the Truckee River for power development. A dam will be built one mile below Vista. A $100,000 power and lighting plant will be erected next spring.

SALT LAKE CITY, UTAH.—The Grand Canyon Power Co., of Salt Lake City, has been incorporated with $100,000 capital stock. O. S. Buell is Pres.; H. M. Bowers, vice-Pres.; George Havecamp, Treas.; O. S. Buell, Secy. The company owns valuable water rights on Green River, diverted at a point a little more than seven miles up Green River from the mouth of Price River, where it is proposed to erect a power plant.

SALT LAKE CITY, UTAH.—Bids were opened Dec. 10 for construction of a brick and concrete conduit and contract was awarded to HAMLEY & RITCHIE, of Topeka, Kan., at $15,632.

Frank Y. Taylor, of this city, is contemplating the establishment of a large power plant near Salt Lake.

BOISE CITY, IDAHO.—The Boise City Gas Co. has decided to extend gas mains to every section of city not now covered. Cost, about $8,000. System will be extended to South Boise next summer.

VANCOUVER, B. C.—The British Columbia Electric Ry. Co., R. H. Sterling, Gen. Mgr., will at once erect a new gas holder which will increase its storage capacity by 150,000 cu. ft. Cost is estimated at about $25,000.

HAMILTON, ONT.—It is stated that about $100,000 will be expended at the start by the Canadian District Heating Co. in the construction of an electric light and power plant. Bids will probably be called for in March. Stewart & Witton, Hamilton, Ont., are Archs.

TORONTO, ONT.—The Northumberland Durham Power Co. has been incorporated to develop power at Healey Falls. W. J. Crossen is one of the incorporators.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

HAVERHILL, MASS.—Specifications have been completed by Geo. F. Swain, Engr., for the proposed bridge across the Merrimac River at this place. A copy was submitted to the city officials for suggestions previous to advertising for bids.

HYDE PARK, MASS.—The contract for constructing the superstructure of Glenwood Ave. foot-bridge has been awarded to M. F. McCARTHY.

NEW HAVEN, CONN.—It is reported that the committee on railroads and bridges has been considering a bridge for the proposed extension of Humphrey St. to Alton St., in this city.

MONESSEN, PA.—The AMERICAN BRIDGE CO., 42 Broadway, New York city, has received contract for the superstructure of the bridge for the Mercantile Bridge Co. over the Monongahela River at this place. The structure is to be a combined highway and street railway bridge.

PITTSBURG, PA.—Bids are asked by Lieut.-Col. E. H. Ruffner, Post-Office Bldg., until 10.30 a. m., Jan. 3, for the construction of the draw bridge across the back channel of the Ohio River at Brunot Island.

It is reported that a new bridge will be erected across the Youghiogheny River in 15th Ave. here at a cost of $150,000.

PITTSFIELD, PA.—The War Department has approved the plans for the 2,600-ft. bridge over the Cuyahoga River at this place for the New York, Chicago & St. Louis Railway Co.

WEBSTER, PA.—It is reported that the contract for the bridge across the Monongahela River at this place was let to the NELSON-BUCHANNAN BRIDGE CO., of Chambersburg, for $194,500.

McKEESPORT, PA.—The McKeesport & Port Vue Bridge Co. has been organized to construct a bridge over the Youghiogheny River here. W. L. Curry, of the McKeesport Tin Plate Co., can inform.

WASHINGTON, D. C.—A bill has been introduced in the House of Representatives by Representative Rixey, of Virginia, for the construction of a $5,000,000 memorial bridge across the Potomac River, from the old naval observatory grounds to the Arlington Estate.

HAVRE DE GRACE, MD.—It is reported that extensive improvements will be made on the Baltimore & Ohio Railroad bridge at this place.

RICHMOND, VA.—The city councils of this city and Manchester have united in the new bridge project as proposed to cross the James River. The cost will be $377,000.

WEST FORK, W. VA.—The West Fork Bridge Co. has been organized for the purpose of building a bridge over the West Fork River.

MOBILE, ALA.—Rudolph Benz & Sons, Masonic Bldg., have completed plans for steel and wood bridge 500 ft. long and 20 ft. wide spanning the Dog River.

KNOXVILLE, TENN.—T. J. Moreland, City Engr., has prepared plans for a viaduct across Asylum Ave., to cost about $35,000. The question of constructing this viaduct will probably be taken up next spring.

PORTSMOUTH, O.—Bids are asked by Fred N. Times, County Audr., until Dec. 26 for steel joists, etc., for roadway construction of the Scioto River bridge here.

SPRINGFIELD, O.—A joint meeting of the Commissioners of Greene and Clarke Counties was held here, at which the commissioners decided to expend $12,800 for the construction of a new bridge near Osborn.

AKRON, O.—It is reported that the Woodland Building & Improvement Co. contemplates the erection of a high level bridge from Perry St. and Broadway to Jefferson St., this city.

Bids are asked by M. D. Buckman, County Audr., until Jan. 8 for the construction of a new bridge over the Akron & Barberton Railroad.

BEAVER, O.—It is reported that a bridge over the Ohio River is contemplated by the Pittsburg & Lake Erie Railroad between this place and Monaca.

YOUNGSTOWN, O.—Plans are in progress for a viaduct over the Erie Railroad between Wood and Federal Sts. F. M. Lillie is Engr.

PORT HURON, MICH.—It is reported that a bridge is contemplated at Military St., this city.

AURORA, ILL.—It is reported that the plans of George Hinckley, of this city, have been accepted for the new bridge for the Northern Pacific Railroad.

LA CROSSE, WIS.—It is reported that a high steel bridge is proposed to cross the La Crosse River here.

CHIPPEWA FALLS, WIS.—W. S. HEWETT & CO., of Minneapolis, Minn., has been awarded the contract for constructing the bridge over the Chippewa River near the mouth of the Flambeau River.

LA CROSSE, WIS.—It is reported that the La Crosse City Railway Co. will erect a bridge over the La Cross River at this place.

SHEBOYGAN, WIS.—It is reported that the WIDELL-FINLEY CO. has received the contract for the construction of the bridge for the Chicago & Northwestern Railway Co. at this place.

MILWAUKEE, WIS.—The Chicago & Northwestern Railway Co. is to build a new bridge over the Kinnickinnic River. It is not decided whether it will be a bascule or turn bridge. Edward C. Carter, Chicago, Ill., is Ch. Engr.

MOUNT VERNON, IA.—It is reported that the proposed steel bridge at First St. is now a certainty. Supervisor Strother can give information.

MINNEAPOLIS, MINN.—It is reported that a bridge is contemplated to cross the Mississippi River at Third Ave. to First St., a distance of 2,200 ft. B. F. Nelson is Chn. Com.

ZIM, MINN.—Bids are asked by O. Holden County Audr., Duluth, until 11 a. m., Jan. 2, for the construction of a steel bridge over the St. Louis River here.

STILLWATER, MINN.—It is reported that the city council is considering the construction of a bridge over the St. Croix River, between this city and Houlton.

ST. PAUL, MINN.—It is reported that the city council and the Great Northern Railroad Co. have agreed on terms for the construction of the new bridge at Superior Ave., St. Paul.

LYNDON, KAN.—Bids are asked until Jan. 2 by the County Commissioners for building steel bridges in Osage County, as follows: One 102 ft. long, one 42 ft. long and two each 100 ft. long; all with 14-ft. roadway on stone abutments. John W. Yeoman is County Clk.

OBERLIN, KAN.—Bids are asked by the County Commissioners until 11 a. m., Jan. 3, for constructing six steel bridges in Decatur County. L. F. Campbell is County Clk.

HASTINGS, NEB.—Bids are asked by the Supervisors of Adams County until 11 a. m., Dec. 26, for the erection of all bridges for the coming year. W. H. Davis is County Clk.

LINCOLN, NEB.—Plans are in progress for a new bridge in Dodge County. State Engineer Dobson is in charge.

VERMILLION, S. DAK.—Bids are asked by F. A. Erickson, County Audr. until Jan. 5 for the construction of all bridges in Clay County for 1906.

ST. LOUIS, MO.—Plans have been filed for the steel and iron bridges for the St. Louis, Kansas City & Colorado Railroad Co. over the Olive St. road, North and South road, and Hanley road, in St. Louis County.

LIVINGSTON, MONT.—A petition has been filed with the County Commissioners here for a new bridge across the Yellowstone River, near Mill Creek. The approximate cost is $2,200.

LITTLE ROCK, ARK.—A bill has been introduced in both Houses of Congress authorizing the Rock Island, Arkansas & Louisiana Railroad Co. to build bridges over the Ouachita River, and other navigable rivers in Arkansas.

PINE BLUFF, ARK.—It is reported that the St. Louis Southwestern Railway Co. is preparing plans for a viaduct over tracks in the east end. M. L. Lynch, Engr., Tyler, Tex., can inform.

CHEYENNE, OKLA.—Bids are asked by John H. Osborne, County Clk., until Jan. 3 for constructing an 85-ft. iron bridge across the Washita River.

SPOKANE, WASH.—Plans are in progress for a combination bridge and viaduct on Division St. Mayor Daggett and Engineer McIntyre are in charge.

It is reported that the Wenatchee Bridge Co. has been formed with a capital stock of $120,000 for the purpose of promoting the construction of a new bridge over the Columbia River here.

STOCKTON, CAL.—It is reported that two new bridges are contemplated to cross the San Joaquin River. County Supervisor Quail is interested.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

FITCHBURG, MASS.—It is stated that a new school-house will soon be erected at South and Nassau Sts. Dr. Chas. W. Spring is Chn. Com.

WORCESTER, MASS.—Plans are completed for a large tenement house on King St. for C. T. Sherer. H. D. Sturtevant, 7 Fern St., is Arch. Cost, $52,000.

BOSTON, MASS.—Plans are being prepared by N. Serracino, Arch., 1133 Broadway, New York, for a new school building on North Bennett St. for the Franciscan Fathers.

A bill providing for a custom-house for Boston was introduced in the House of Representatives by Representative Weeks. The bill provides for an 8-story building, which completed will cost nearly $2,500,000.

BRIDGEPORT, CONN.—The Bridgeport Theater Co., it is stated, has been incorporated with a capital of $50,000, and intends erecting a theater on Main St. Wm. H. Isham, of Bridgeport, is one of the incorporators.

WALLINGFORD, CONN.—Contract for the superstructure for the new school building at this place was awarded to C. W. MURDOCK, New Haven, Conn. The contract does not include heating, ventilating or plumbing, all of which will be figured later.

NEW YORK, N. Y.—Felix Isman, 604 Chestnut St., Philadelphia, Pa., has purchased a plot, 118 × 98 ft., on Herald Square, Broadway and 33d St., New York, where, it is reported, a 25-story office building will be erected.

BROOKLYN, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Dec. 26, for the sanitary work and gas fittings of Public School No. 151, on Knickerbocker Ave., between Halsey and Weirfield Sts., Boro. of Brooklyn.

NEW YORK, N. Y.—The American Real Estate & Trust Co., 290 Broadway, New York, will erect a 6-story fireproof department store at 149th St. and Melrose Ave., New York. Ground plot is 100 × 100 ft.

Henry H. Rogers is having plans drawn for a 3-story children's home, 98 × 192 ft., at 176th St., Montgomery, Andrews and Tremont Aves., New York. The cost will be about $300,000. Charles Brigham, 8 Exchange St., Boston, Mass., is Arch.

NEW YORK, N. Y.—Bids were opened by the Board of Education Dec. 18 for installing heating and ventilating apparatus in Public School No. 3, Borough of Manhattan. Evans, Almirall & Co., 281 Water St., New York, were low bidders, at $31,859. Bids were also opened for installing heating and ventilating apparatus in additions to Public School No. 10, Borough of Manhattan. M. Rutzler & Co., 127 White St., were low bidders at $29,493. Bids will be readvertised.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Dec. 26, for general construction of Public School No. 27, between 41st and 42d Sts., near Third Ave., Boro. of Manhattan. Also for general construction of of additions and alterations to Hall of the Board of Education at Park Ave. and 59th St., Boro. of Manhattan.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Dec. 26, for altering heating and ventilating apparatus in Public School No. 20, on Stamford Ave. and Union St., Flushing, Boro. of Queens.

The contract for the reinforced concrete work on the 9-story fireproof apartment house for the 110 Street Company was awarded to the HENNEBIQUE CONSTRUCTION CO., 1123 Broadway, New York. Snelling & Potter, 1170 Broadway, New York, are Archs.

It is reported that extensive improvements will be made on the Colonial Club in the spring. A. D. Russell, 52 Wall St., can inform.

NEW YORK, N. Y.—The Bellwood Realty Co., 35 Nassau St., New York, is taking figures on separate contracts for the 9-story apartment house on 93d St. and West End Ave., New York. Geo. F. Pelham, 503 Fifth Ave., is Arch. Cost, $90,000.

C. T. WILLS, 156 Fifth Ave., New York, has been awarded the general contract for an 8-story addition on No. 30 West 55th St. for John S. Kennedy, 31 Nassau St., New York.

Hoppin, Koen & Huntington, Archs., 244 Fifth Ave., are taking figures on switchboards and electric wiring for the residence of E. D. Bailes, at 10 East 62d St. Building will be 6 stories and basement, 25 × 100 ft.

J. A. LUCEY, 330 West 26th St., New York, has been awarded general contract for the 11-story loft building for Mrs. J. D. Robinson, 18 and 20 West 21st St. C. Dunne, 330 West 26th St., is Arch.

CHURCH CONSTRUCTION CO. signed the general contract for the municipal lodging house at 25th St. and First Ave. R. F. Almirall, 51 Chambers St., is Arch.

NEW YORK, N. Y.—Figures have been taken but no contract awarded for the Rhinelander addition at Duane and William Sts. The addition is 12 stories, 90 × 90 ft., with another wing, 50 × 75 ft. Clinton & Russell, 32 Nassau St., New York, are Archs.

C. T. WILLS, 156 Fifth Ave., has been awarded the contract for erecting a residence for Mrs. Harvey Fiske, at 12 East 53d St., New York. The residence will be 5 stories, 40 × 70 ft. R. C. Gildersleeve, 150 Fifth Ave., is Arch.

It is reported that the Sidney B. Bowman Automobile Co., 52 West 43d St., will erect a 4-story garage at 225 to 231 West 49th St., New York.

It is stated that the trustees of Barnard College contemplate the erection of a $300,000 dormitory.

NEW YORK, N. Y.—Plans are in progress for a new theater on West 42d and 43d Sts. The plot is 100 × 120 ft. The construction will be fireproof; seating capacity, 2,000; cost, $600,000. Alexander Finkle, 48 White Plains Ave., Williamsbridge, is Arch. J. M. Flagg, 76 Fifth Ave., is interested.

Plans have been completed for two 6-story brick and stone tenement houses at 125th St. and Broadway for Kleinfeld & Englesberg. Stern & Morris, 1133 Broadway, are Archs. Cost, $110,000.

Plans have been completed for a 6-story brick and store apartment house at 122d St. and Broadway for H. C. & H. M. Hall Realty Co., 360 West 125th St., New York. Neville & Bagge, 217 West 125th St., are Archs. Cost about $150,000.

Plans have been filed by H. P. Howell, Arch., Third Ave. and 149th St., New York, for a 5-story tenement and store at Bradhurst Ave. and 145th St. for H. Matz, 1858 Fifth Ave. Cost, $60,000.

NEW YORK, N. Y.—Plans have been filed for five 5-story brick tenements on St. Nicholas Ave. and 177th and 178th Sts. for H. Strauss, 73 East 90th St. Schwartz, Gross & Marcus, 35 West 21st St., are Archs. Cost, $185,000.

Plans have been filed by C. B. J. Snyder, Supt. Bldgs., for a new 5-story school building, No. 121, on East 121st St., New York. Cost is estimated at $80,000.

Plans have been completed for a home for colored children on Palisades Ave., near 261st St., New York. There will be a group of buildings, involving the expenditure of $298,000. The main building will be 3 stories, 68 × 234 ft. There will be six 2½-story brick dwellings, each 30 × 48 ft. Robertson & Potter, 160 Fifth Ave., are Archs.

Plans have been filed for a 6-story tenement at Amsterdam Ave. and 95th St., New York. Size 62 × 87 ft. Cost, $100,000. A. B. Knight, 1947 Broadway, is owner and Arch.

NEW YORK, N. Y.—Tentative plans have been made for a new club-house on West 48th St., between Broadway and Sixth Ave., for the Amateur Comedy Club. The building is to be 10 stories. Cost will be $250,000. Howard M. Peck, 160 Fifth Ave., is Arch.

Plans are asked by the Fire Commissioner until 10.30 a. m., Dec. 27, for furnishing all labor and materials necessary for alterations and additions to quarters of hook and ladder company 12, at 243 West 20th St., Boro. of Manhattan.

Plans have been filed for the New York Central & Hudson River Railroad 7-story station and office building at Lexington Ave., 43d to 45th Sts. Size, 224 × 275 ft. Cost about $1,000,000. C. A. Reid, 314 Madison Ave., New York, is Arch.

BROOKLYN, N. Y.—E. RUTZER & CO., 127 White St., New York, deposited the low bid for the pipe system on the Kingston Ave. Hospital. Bid was $26,881.

BROOKLYN, N. Y.—Plans have been completed for a new 4-sty school on Marcey Ave., between Rodney and Keap Sts., Brooklyn. It will be fireproof, steel, brick, stone and terra cotta. Size, 198 × 225 ft. Cost, $375,000. C. B. J. Snyder, 500 Park Ave., is Arch.

WOODMERE, L. I., N. Y.—It is reported that an addition will be built to the school-house in Union free school district at this place.

ROME, N. Y.—Plans and specifications are on file at the office of Engineering News, for electric wiring, for lighting, flat irons and ironing machinery for Rome State Custodian Asylum. (Advertised, Engineering News, Dec. 14.)

LEBANON, N. Y.—It is reported that the West Shore Railroad Co. contemplates the erection of a new depot here.

NEW ROCHELLE, N. Y.—Bids are asked by Capt. E. M. Jones, Q. M., until Dec. 26, for installing new plumbing and altering the construction of barracks Nos. 35, 38 and 40 and mess hall at Fort Slocum.

BUFFALO, N. Y.—It is reported that MOSIER & SUMMERS, 1266 Seneca St., Buffalo, have secured the plumbing contract on the 65th Regt. Armory, at about $33,000.

SYRACUSE, N. Y.—C. D. Wilsey, Nottingham Bldg., is reported to be preparing plans for remodeling the Empire Hotel, at a cost of about $50,000. Andrew S. White is Mgr.

It is reported that the congregation of the Holy Trinity Catholic Church in Park St. is contemplating the erection of a new $50,000 church. Rev. John Rouland is pastor.

JAMESTOWN, N. Y.—At a recent meeting of the School Board of this city the plans of W. J. Beardsley, of Poughkeepsie, New York, were accepted for the new $65,000 school building. It will contain 16 class rooms and an assembly hall.

WATERTOWN, N. Y.—The New York Central & Hudson River Railroad Co. is contemplating the erection of a large passenger depot here. In addition, it is expected that a new freight depot will be erected between Morrison and Leray Sts. on the north side of the river.

NIAGARA FALLS, N. Y.—It is reported that a syndicate has been formed for the purpose of expending about $250,000 to transform Connors Island into a large amusement park.

OSSINING, N. Y.—We are informed that Rand, McNally & Co., 142 Fifth Ave., New York, will make extensions to their present plant at Ossining. Project is only in primitive form. No details.

PATERSON, N. J.—It is reported that W. T. Fanning, of this city, has won the competition for the new school building at this place.

NEWARK, N. J.—Bids are asked by the County Commissioners until 3 p. m., Jan. 16, for the furnishing and installing of bronze lamps and gas fixtures for the new city hall building and boiler-house on Broad St., between Green and Franklin Sts. Wilson C. Ely, 800 Brood St., Newark, is Arch.

Bids will be received at the office, Cass Gilbert, Arch., 79 Wall St., New York, until Jan. 31, for the purchase and removal of the old Essex County Court-House at Newark.

The Board of Education has settled on Jan. 15 as the date when the competition will close to architects wishing to submit plans for the new Technical High School at High, New and Summit Sts., Newark.

NEWARK, N. J.—G. EMSLIE, 4 Court St., Brooklyn, New York, has been awarded the contract for a milk depot and stable on Mt. Pleasant Ave., Newark, for the Borden Condensed Milk Co., 108 Hudson St., New York. The building will be fireproof, brick and stone, 3 stories, 75 × 100 ft. G. H. Chamberlain, 1183 Broadway, New York, is Arch.

ELBERON, N. J.—H. H. VOUGHT, 112 West 42d St., New York, has been awarded the general contract for a residence in this place for Harvey Fiske, 29 Nassau St., New York. Building will be 2½ stories, 40 × 126 ft. R. C. Gildersleeve, 150 Fifth Ave., is Arch.

GLENRIDGE, N. J.—Plans are in progress for a residence at Glenridge for [illegible] ston. The building will be 2½ [illegible] 65 ft., with a wing 25 × 30 ft. [illegible] 45 Clinton St., Newark, N. J., is [illegible]

WILKES-BARRE, PA.—Plans are [illegible] for a church for the Ecclesia[illegible] gregation at this place. It will be [illegible] stone, costing about $75,000. [illegible] Glynn, Wilkes-Barre, is Arch.

SCRANTON, PA.—Plans are [illegible] for a new $75,000 church to be [illegible] for St. Ann's Monastery. [illegible] Wilkes-Barre, Pa., is Arch.

PHILADELPHIA, PA.—Bids [illegible] ceived by Horace Trumbauer, [illegible] Title Bldg., for the erection of [illegible] 16th and Market Sts., Philadelp[illegible] stone and steel, fireproof, 12 stori[illegible] ft., costing $600,000.

Carl P. Berger, 1416 South P[illegible] architect for the proposed Jewish [illegible] be erected in this city, at a prob[illegible] $150,000.

John R. Wiggins & Co., 721 Ho[illegible] is stated, submitted the lowest bi[illegible] ing a bank building for the Colonia[illegible] It is to be of granite and is to [illegible] $240,000.

CARBONDALE, PA.—Plans are [illegible] for a new post-office to be built here. The building will be 2 stories, stone [illegible] construction. Cost, $110,000. J. Kemp Taylor, Washington, D. C., is Arch.

ALLEGHENY, PA.—The Board of Education has appointed W. E. Snaman, Empire Bldg., Pittsburg, to draw plans for $50,000 school building for the Twelfth Ward. It will be three stories, and contain twelve rooms.

PITTSBURG, PA.—It is reported that the board of trustees of West Penn. Hospital is contemplating the erection of a new $1,000,000 hospital. A. J. Logan, Pittsburg, Pa., is Vice-Pres.

Bids are asked by Charles J. Rieger, Arch., 314 Fourth Ave., until 2 p. m., Dec. 29, for the erection of a 3-story school building at First Ave. and Ferry St. for the Duquesne Sub-district of Pittsburg, Pa.

OAKLAND, PA.—A. J. KUHNS has been awarded contract for constructing the apartment house at McKees Place and Louisa St., Oakland, for S. W. Gault and W. W. Giffen.

YORK, PA.—Congressman D. F. Lafean introduced a bill in the House of Representatives for an appropriation of $400,000 for the purchase of a site and erection of a federal building at York, Pa.

CONNELSVILLE, PA.—It is reported that Joseph Soisson is planning to erect a new theater at this place.

GREENSBURG, PA.—Bids are asked by John D. Hitchman, County Controller, until 12 noon, Dec. 28, for the completion of the new Westmoreland county court-house.

SHARON, PA.—It is reported that a new federal building is contemplated for Sharon. It may cost $80,000. Councilman Denny can inform.

SHAMOKIN, PA.—A bill has been introduced in Congress to provide $100,000 for the erection of a federal building. E. W. Samuel is interested.

ALLENTOWN, PA.—B. F. Keith has awarded the contract for erecting a new theater in this city to G. H. AYMAR. The new project will cost about $52,000.

WASHINGTON, PA.—The contract for the new union depot to be erected here by the Pennsylvania and the Washington & Waynesburg Railroads was awarded to the N. VANKIRK CO.

DELAWARE CITY, DEL.—Bids are asked by Louis F. Garrard, Q. M., until 10.30 a. m., Jan. 11, for constructing frame wagon shed and frame fire station at Fort Du Pont, Del. (Advertised, Engineering News.)

WILMINGTON, DEL.—THE MANUFACTURERS' CONTRACTING CO. has the general contract for the erection of a bank and office building for the Wilmington Trust Co. It will be 12 stories, fireproof, and cost $600,000.

Plans are in progress for a new 2-story telephone exchange to be built at Wilmington for the Bell Telephone Co., of Philadelphia, Pa. J. T. Windrim, Commonwealth Bldg., Philadelphia, is Arch.

BALTIMORE, MD.—The contract for erecting the superstructure for the retail market and night school on Center Market space was awarded to the CHARLES McCAUL CO., 224 North Liberty St., Baltimore, at $173,470. Simonson & Pietsch, American Bldg., are Archs.

John J. & Charles W. Hurst, Calvert Bldg., Fayette and St. Paul Sts., have purchased lot 20 × 120 ft. on Cathedral and Chase Sts., and will erect 6-story apartment houses on the site.

BALTIMORE, MD.—It is reported that an addition to the penitentiary will be made soon. No plans have been started for the project. The approximate cost will be $200,000.

WASHINGTON, D. C.—It is reported that the Geo. A. Fuller Co., Home Life Bldg., will soon take bids on sub-contracts for an alteration to the Hotel Raleigh. The addition will be 8 stories, 45 × 150 ft.

Plans have been started for the army hospital on Brighton Road by Marsh & Peter, Archs., 528 13th St., N. W. It will be 4 stories. Cost, $300,000.

THE WM. P. LIPSCOMB CO., 1405 F St., N. W., has been awarded the contract for erecting the residence for J. F. Johnston.

WASHINGTON, D. C.—The contract for the erection of a $130,000 gymnasium for the Georgetown University has been awarded to JOHN S. LARCOMBE, 808 17th St., Northwest.

The contract for furnishing and installing electric light fixtures in the Capitol building was awarded to the LAWRENCE GAS FIXTURE MFG. Co., of Philadelphia Pa., for $9,500.

THE HORN & BRANNEN MFG. CO., of Philadelphia, Pa., was awarded the contract for installing lighting fixtures in the Bureau of Engraving and Printing, at $2,918. Bids were opened Nov. 27.

Clark & ...illen, 20 Broad St., New York, have been ...pointed electrical engineers for the office ...lding to be erected in Washington for ... F. Walsh. Townsend & Haskell, 31 ...t 19th St., New York, are Archs.

ROANO... VA.—It is reported that a new freight d... will be erected here by the Norfolk & ...estern Railway Co.

NORF... VA.—An appropriation of $60,-000 has ... made for the erection of a new school b...ng here.

GOLDS...RO, N. C.—Bids are asked by W. T. Harr... Chn. Com., until Jan. 1, for the erection ... 3-story brick building for Neuse Lodge, ...6, I. O. O. F. H. E. Bonitz, Wilming..., N. C., is Arch.

PENSA...LA, FLA.—The city is arranging for the ...tion of a $75,000 city hall.

TAMPA, FLA.—Bids are asked by the County ...mmissioners until 12, noon, Jan. 2, for the erection of an addition to Hillsborough ...unty court-house. Miller & Kennard, American National Bank Bldg., are Archs.

MOBILE, ALA.—The plans of Rudolph Benz & Sons, Archs., Masonic Bldg., have been adopted for the erection of the court-house and jail. Cost, $200,000.

BIRMINGHAM, ALA.—Plans have been completed by P. T. Marye, Arch., Equitable Bldg., Atlanta, Ga., for a terminal station for the Birmingham Terminal Co. Brick and steel, one story. Cost, $400,000.

NEW ORLEANS, LA.—Stone Bros., Archs., 818 Common St., it is reported, are preparing plans for a theater which is to be erected at Poydras, Baronne, Lafayette and Dryades Sts., at an estimated cost of $100,000.

MEMPHIS, TENN.—It is reported that the SELDEN-BRICK CONSTRUCTION CO. has received the contract for the erection of the 7-story office building for the Goodwyn Institute. Cost, about $260,000.

LOUISVILLE, KY.—It is stated that McDonald & Dodd, Archs., Louisville, Ky., have prepared plans for a 7-story building at Fourth Ave. and Walnut St. for the Stewart Dry Goods Co. The cost is $650,000.

HAMILTON, O.—An appropriation of $200,-000 for a new government building at this place.

CINCINNATI, O.—Bids are asked by Geo. F. Holmes, Clk. Bd. Public Service, until Jan. 9 for the structural work required to enclose the administration building at the new General Hospital on Burnet and Eden Aves. Samuel Hannaford & Sons, Hulbert Bldg., are Archs.

The Graydon Estate, it is stated, intends erecting an 8-story building at Ninth and Sycamore Sts. Estimated cost, $150,000.

TOLEDO, O.—John F. McKenna, it is stated, is having plans prepared for a $60,000 flat which he proposes erecting at 21st and Monroe Sts.

CLEVELAND, O.—It is reported that the Physicians & Surgeons Bldg. Co. contemplate the erection of a 10-story office building to contain a theater on Broad and Lazelle Sts., at a cost of $300,000.

JOLIET, ILL.—Plans have been completed by C. W. Webster, Arch., 400 Cutting Bldg., for the new city hall to be erected here.

CHICAGO, ILL.—The Board of Education has decided to cooperate with the city and county in establishing a school for truants and juvenile delinquents and has voted to expend approximately $100,000 for the purchase of a site and the erection of the building. D. H. Perkins, 17 Van Buren St., the board's architect, will prepare the plans.

CHIPPEWA FALLS, WIS.—It is reported that a new $75,000 school building is under consideration here.

EDGERTON, WIS.—Bids are asked by W. Wright, Secy. Bldg. Com., until Feb. 1 for the erection of a public library building at Edgerton. Proposals for the general work, exclusive of plumbing, heating and electric wiring, and separate bids for plumbing, heating and electric wiring will be considered. H. A. Foeller, Green Bay, Wis., is Arch.

SIOUX CITY, IA.—Armour & Co., Union Stock Yards, Chicago, Ill., are reported to have plans in preparation for a 7-story ham house, 70 × 130 ft., and a 3-story beef house, 150 × 150 ft., to be built next year at Sioux City. The buildings will be of mill construction, with brick and stone exterior, and are estimated to cost $250,000.

MINNEAPOLIS, MINN.—The Great Northern Drilling & Construction Co. will erect a modern fireproof hotel at Fourth St. and Second Ave. The cost is $100,000. S. J. Bowler, Bank of Commerce Bldg., Minneapolis, is Arch.

OMAHA, NEB.—PARSONS & KIENE have been awarded the general contract for the new Y. M. C. A. building here.

ST. LOUIS, MO.—Bids were opened Dec. 12 for the construction of the school building at Ann Ave., near Ninth St. The lowest bids received were as follows: General construction, Fred. Boeke, $136,500; plumbing and sewering, Crane-Clancy Plumbing Co., $9,275; heating and ventilating, B. F. Sturtevant & Co., $15,947; electric wiring, Eclipse Electric Co., $5,250.

The erection of a new building at Linwood college to cost about $75,000 is reported under consideration. Rev. Dr. G. F. Ayres is Pres.

DALLAS, TEX.—Plans have been completed for a building for the Holy Trinity college. Cost will be $150,000. H. A. Overbeck, Slaughter Bldg., is Arch. Rev. P. A. Finney, 130 Pavillion St., is interested.

FT. WORTH, TEX.—The members of the First Methodist Church, it is reported, are contemplating the erection of a $100,000 edifice.

PARIS, TEX.—Bids are asked by Barry & Smith, Archs., until 12 noon, Jan. 2, for the Lamar County Home and Hospital building.

SACRAMENTO, CAL.—The Farmers and Mechanics' Bank is to erect a new building at Second and Center Sts., at a cost of $1...000.

LOS ANGELES, CAL.—CARL LEONARDT has been awarded the contract for erecting a 7-story steel framed building at Spring and Sixth Sts. for the Los Angeles Development Co. Estimated cost is $199,000.

It is reported that the International Savings & Exchange Bank will erect a 10-story bank and office building on Spring and Temple Sts. Cost, $350,000.

TORONTO, ONT.—It is reported that plans have been completed for the new barracks to be erected in Toronto. There will be about 20 brick and stone buildings in the group. Cost, $500,000.

The City Council, it is stated, has approved the plans submitted by G. W. Gouinlock, Temple Bldg., for the Implement & Process Bldg., to be erected on the Exhibition Grounds, at an estimated cost of $84,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

DUNKIRK, N. Y.—W. C. Baumgarten, Secy. Bd. of Water Com., informs us that the matter of new improvements will be taken up next spring.

ROCHESTER, N. Y.—A 20-mile extension to supply the citizens of Irondequoit is being planned by the Rochester Lake Ontario Water Co. Estimated cost is $100,000 and work will be started as soon as reasonable guarantee is given by section benefited that the water company will not lose by constructing the extension. Theodore Grant, of Irondequoit, is interested; and G. K. M. Clarke, of the water company, may be consulted.

BUFFALO, N. Y.—The Buffalo Dredging Co., 306 D. S. Morgan Bldg., Buffalo, was lowest bidder for constructing a tunnel from the north end of Ohio St. under the Buffalo river to the Island. The bid was $13,900, and the purpose of the tunnel is to furnish an additional water supply for fire protection to property on the Island.

ALBANY, N. Y.—Bids are asked until 3 p. m., Jan. 15, for Contract No. 2, improvement of water supply, for pumping engines at the Quackenbush St. station. Isadore Wachsman, Ck. Bd. of Contract and Supply. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked until 2 p. m., Dec. 28, for furnishing, delivering and laying water mains in several streets. John T. Oakley, Comr. Water Supply, Gas and Electricity, Boro. Manhattan.

HADDONFIELD, N. J.—Town may purchase water system and operate as municipal property.

MONTCLAIR, N. J.—Municipal ownership of water plant is being agitated, and Mayor D. D. Duncan has appointed committee to investigate same.

SHARON, PA.—The Sharon Water Co. has decided upon extensive improvements at the local plant, to cost $12,000.

WASHINGTON, D. C.—The Secretary of the Interior has awarded the following contracts in connection with the Lower Yellowstone irrigation project, North Dakota and Montana: To the WIDELL-FINLEY CO., of Mankato, Minn., Divisions five, six, seven and nine, and laterals A, B, C, D, E, F-a, G, I, J, J-a, J-b, K, L and M. The contract with this company calls for the construction of about 29½ miles of canal and 50 miles of laterals, at a cost of $252,770. To NOHLE & MANN, of Buford, N. Dak., lateral N, about 5½ miles, at $5,727.

The Secretary of the Interior has announced that he has appropriated $200,000 for construction of the diversion dam in Rio Grande Valley at Fort Seldon. It will be constructed and used as a unit of the main dam of the Elephant Buttes reservoir and ditch system. Work will commence as soon as the engineers are ready.

PIEDMONT, W. VA.—It is stated that bids are asked until Jan. 2 for the construction of a gravity system of water-works at an estimated cost of about $30,000. H. B. Carroll is Pres. Piedmont Water-Works Co.

WILMINGTON, N. C.—The Clarendon Water-Works Co. is reported to have awarded to the PITTSBURG FILTRATION CO., of Pittsburg, Pa., the contract for installing a mechanical filtration plant, for about $25,000.

COLUMBUS, GA.—A proposition to furnish water to this city by a system of artesian wells is being considered by the Water Commissioners. Estimated cost, $62,000.

FORT SCREVEN, GA.—Capt. J. D. Davidson, Q. M., informs us that HURLEY & CO., of St. Paul, Minn., have been awarded the contract for pump-house and machinery at this place.

TOCCOA, GA.—A water system is being projected for this city at an approximate cost of $30,000.

KEY WEST, FLA.—Bids are asked by the Quartermaster, Key West Barracks, Fla., until 11 a. m., Jan. 15, 1906, for labor and materials for construction of one 104,000-gallon concrete cistern, two concrete cisterns, 14,000 gallons each, and enlarging a cistern now in use.

BRIGHTON, ALA.—The city has signed a contract with the ADLER BROS. for their water supply, and work is to begin at once.

OAKMAN, ALA.—It is reported that the town is arranging for the construction of reservoir or tank, piping the town and installing fire plugs. M. O. Travis is Chn. of Com.

MACON, MISS.—It is reported that bids are asked by H. L. J. Barnes, City Clk., until Jan. 9, for furnishing material and erecting a tank and tower, a filter plant, a clear water basin and a raw water basin.

NEWPORT, KY.—W. L. Glazier, Supt. Water-Works, writes us that water system of Newport will be extended to include the towns of Southgate and Clifton. This will necessitate erection of a pump and tank.

CARROLLTON, O.—It is reported that the city is considering the question of obtaining an increased water supply.

ZIONSVILLE, IND.—Bids are asked for the construction of a water and electric light plant by the Zionsville Light & Water Co.

FRANKFORT, IND.—The council has decided to ask for bids for the construction and installation of a new city water system.

NEGAUNEE, MICH.—It is stated that this city is considering purchase and installation of 1,000 water meters. Edw. Anthony is Pres. Bd. Pub. Works.

MILWAUKEE, WIS.—Council is discussing purchase of another 20,000,000-gallon pump. Chas. J. Poetsch is Chn. Bd. Pub. Wks.

LINCOLN, NEB.—Bids are asked until 2 p. m., Jan. 15, for furnishing a high-duty pumping engine. Estimated cost, $16,500. T. H. Pratt, City Clk.

BISMARCK, N. D.—It is reported that bids are asked until Jan. 11 for laying an 8-in. water main at Fort Lincoln. Lieut. Col. J. E. Sawyer, Q. M., St. Paul, Minn.

MONETT, MO.—It has been voted to make issuance of $6,000 of bonds for improvements to the water system. The Mayor may be addressed.

ARGENTA, ARK.—Bids are asked until noon, Jan. 15, for various water-works appurtenances. Specifications can be had by addressing O'Neil Engineering Co., 506 North Texas Bldg., Dallas, Tex., and stating the items on which manufacturers desire to bid. Specifications may be seen at office of Engineering News, 220 Broadway, New York. C. J. Humphreys, Secy. Bd. of Improvements. (Advertised, Engineering News.)

DALLAS, TEX.—It is reported that the council has voted to purchase the Oak Cliff water-works at a cost of $30,000.

DENVER, COLO.—The contract for the construction of a new pumping plant at the City Park has been awarded to J. GEORGE LEYNOR CO., at $16,693.

The Agricultural Ditch Co. are planning to construct a large reservoir about eight miles from here. It is estimated that $100,000 will be expended.

SANTA FE, N. M.—The Toltec Irrigation Co. has been incorporated here. Martin M. Bailey, of Danville, Ill.; T. B. Catron, R. O. Gorton and A. B. Renehan, of Santa Fe, are directors.

LAKE VALLEY, N. M.—The Rio Mimbres Irrigation Co. proposes to store waters of Mimbres River in Luna and Grant Counties. Cost of construction is estimated at $1,000,-000, and E. H. Beckford is Mgr. at this city.

GALLUP, N. M.—It is stated that town will issue $10,000 of bonds for a water supply. F. W. Meyers is Town Clk.

WENATCHEE, WASH.—The Okanogan Power & Irrigation Co., E. E. Hall, Pres., will place at least 15,000 acres of land under irrigation in the vicinity of Brewster. Dam for the reservoir will be built this winter.

SEATTLE, WASH.—Ordinances have been passed which provide for the construction of several water mains.

THE INTERNATIONAL CONTRACT CO. has been awarded the contract for water mains in East Prospect St., at $21,029.

Superintendent Youngs, of the Water Department, and R. H. Thompson, City Engr., have selected site at Woodland Park for a new water storage reservoir, to have capacity of 50,000,000 gallons, cost of which is estimated at about $200,000.

ARLINGTON, WASH.—The Jim Creek Water, Light & Power Co. has been incorporated for the purpose of supplying this vicinity with water, light and power. Thos. Moran, J. T. Moran and T. A. Hansen are incorporators.

ROSALIA, WASH.—Town has voted in favor of new water-works system, to cost about $18,0... W. W. Pickett is Town Treas.

TACOMA, WASH. — Public feeling is strongly in favor of a gravity water system. It is estimated that the cost will run into the hundred thousands, and construction will take at least two years. Frank L. Davis is Cy. Engr.

WAITSBURG, WASH.—This city has decided to install a gravity filtering plant. Contract will be awarded to the WAITSBURG ELECTRIC LIGHTING CO. to pump water for the city and keep pumps and motors in repair for period of 20 years. Cost of filtering plant will be about $9,000.

HANFORD, CAL.—J. Shaw Robertson states that $15,000 will be expended on improvements to the water plant in this city.

SANTA MONICA, CAL.—An ordinance has been brought before the council providing for the issuance of $250,000 of water bonds, and a municipal water system is planned. Thos. H. James is Cy. Engr.

SAN DIEGO, CAL.—The Board of Public Works will shortly advertise for bids for constructing sewer in 30th St. G. A. D'Hemecourt is Cy. Engr.

WHITTIER, CAL.—Council has awarded contract for constructing new reservoir to HENRY J. BRANN, at $4,995, for cement work; and to C. LEONARDT for furnishing cement, at $3.05 per bbl.

SALT LAKE CITY, UTAH.—The Lake Bottom Irrigation Co. has been incorporated for the purpose of using the waters of the Provo River for irrigation. Geo. C. Scott, Sr., and J. J. Dilatosh are interested.

GUELPH, ONT.—It is stated that Allen Hazen, 220 Broadway, New York, N. Y., has submitted a report on the water supply. He estimates the cost of a sand filter at $61,150 and a mechanical filter at $48,500.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids were opened on Dec. 16 for constructing sewers and drains at Navy Yard, Boston. C. M. Leach, Navy Yard, Boston, was lowest bidder, at $6,983.

LONG ISLAND CITY, N. Y.—Bids were opened Dec. 12 for constructing sewers in several streets. Henry J. Mullen was lowest bidder for sewer in Academy St., at $5,-401; for sewer in Radde St., $4,588, and for sewer in Webster Ave., $6,297.

Bids are asked until Dec. 26 for constructing sewers in 20th, 28th and 29th Sts., Whitestone. Jos. Cassidy, Boro. Pres.

ROCHESTER, N. Y.—Ordinances providing for the expenditure of $57,000 for sewer improvements have been presented to council. Edw. A. Fisher is City Engr.

BROOKLYN, N. Y.—Bids are asked until 10 a. m., Dec. 30, for reconstructing a storm sewer on Nostrand Ave. M. W. Littleton is Boro. Pres.

UTICA, N. Y.—It is stated that plans and specifications have been prepared for improving the Rome-Taberg Road, five miles in length, at a cost of $40,250; also the Rome-Northwestern Road, four miles long, at a cost of $41,400. Paul Schultze is City Engr.

WATERFORD, N. Y.—It is reported that resolutions have been passed for paving Saratoga Ave., at an estimated cost of $22,000.

BAYONNE, N. J.—It is stated that the UVALDE ASPHALT CO., 1 Broadway, New York, have been awarded the contract for paving Ave. C. Their price was $49,783.

ALTOONA, PA.—It has been voted to construct a number of new sewers. Harvey Linton is City Engr.

ERIE, PA.—The contract for constructing 18-in. sewer in Commercial, 19th and Brandes Sts. was awarded to J. T. PRESSLEY, and for a 12-in. sewer in Pennsylvania Ave. to P. DOLE.

PETERSBURG, VA.—A sewer system, at a cost of $30,000, is being considered by citizens of this city. Robert Budd is City Engr.

ROANOKE, VA.—The contract for the construction of a sewer system in the Crystal Spring section has been awarded to WINGATE & McGEHEE, involving a consideration of $10,000.

FAYETTEVILLE, N. C.—This city is arranging for the construction of a sanitary sewer system.

COLUMBIA, MISS.—The contract for constructing a sewer system for this town has been awarded to G. T. HALLAS & CO.

LEXINGTON, KY.—An ordinance was passed by the general council authorizing the mayor to receive bids for additional sewers.

AKRON, O.—The contract for the new South Akron sanitary sewer has been let to HALLINAN BROS., at $31,550; the contract for the brick storm sewers at Thornton and Voris Sts., was awarded to HUNT & WIGLEY, at $3,826.

RAVENNA, O.—It is reported that bids will be asked in February for the construction of a sewer system, including septic tanks and sand filters, at an estimated cost of $100,000. Williams & Whitman, 17 Battery Pl., New York, are Engrs.

CANTON, O.—F. E. Myers, City Engr., writes us that a large storm sewer will be constructed shortly.

CLEVELAND, O.—Bids are asked until 12 o'clock, noon, Dec. 26, for constructing several sewers. A. R. Callow, Secy. Bd. Pub. Serv.

CINCINNATI, O.—Bids are asked until 12 o'clock, noon, Dec. 26, for constructing sewer in Henshaw Ave. Geo. F. Holmes, Clk. Bd. Pub. Service.

Bids are asked until 12 o'clock noon, Dec. 22, for constructing several sewers. Geo. F. Holmes, Clk., Bd. Pub. Service.

Bids are asked until noon, Jan. 9, for constructing a sewer. G. F. Holmes is Clk. Bd. Pub. Service.

DAYTON, O.—F. M. Turner, City Engr., is completing plans for storm sewers in the East End.

BROOKVILLE, IND.—It is reported that bids are asked until Jan. 2 for constructing a gravel road in Ray Township. Chas. A. Miller is County Auditor.

WILMETTE, ILL.—E. N. Roberts, Engr., 101 Washington St., Chicago, will prepare plans and specifications for a gravity relief sewer system for Wilmette. Cost, $140,000.

HINSDALE, ILL.—It is reported that V. B. Roberts, Engr., 101 Washington St., Chicago, is preparing plans and specifications for a gravity sewer system for this city. Estimated cost, $30,000.

CHICAGO, ILL.—The Chicago "Chronicle" states that rather than risk the loss of more money in readvertising for the third time for bids for the 95th St. sewer system, the board of local improvements has accepted the bid of NASH BROTHERS for $871,997 and awarded the contract. The sewer system will be one of the largest pieces of concrete work in the world and will drain the entire territory between 95th and 107th Sts.

CHARITON, IA.—The contract for the proposed 5,000 ft. of sewer was let by the city council to SWIFT & SON, of Atlantic, Ia.

WASHINGTON, IA.—It is reported that bids are asked until Jan. 4 for furnishing material and constructing an extension to the present brick storm sewer. The work consists of approximately 3,000 ft. of circular sewer, 36 ins. interior diameter and 52 ins. exterior diameter, laid at a depth that averages about seven ft. of excavation. J. H. Steck is City Clk.

DES MOINES, IA.—The contract for constructing the Ninth St. sewer has been awarded to JAS. HORRABIN & CO.

ST. PAUL, MINN.—It is reported that bids are asked until Dec. 21 for constructing a sewer in Earl St. R. L. Gorman, Clk. Bd. Pub. Wks.

ALLIANCE, NEB.—It is stated that Blake & Lawrence, St. Louis, Mo., are planning for the building of a sewer system, and bids will probably be asked in the spring. D. Waters, is City Clk.

FORT ASSINIBOINE, MONT.—Bids are asked until 11 a. m., Dec. 30, for the construction of a bacterial sewage purification plant. Capt. J. B. McDonald, C. Q. M.

ST. LOUIS, MO.—The city council has passed the bill appropriating $15,000 for the construction of the Gimlin Road sewer, east of Broadway, in Baden.

TEXARKANA, ARK.—Bids are asked until 3 p. m., Jan. 15, for a system of pipe sewers. A. W. Stevens, Chn. Bd. Improvement, Dist. No. 5.

WEATHERFORD, TEX.—City has voted in favor of issuance of $25,000 of bonds for sewer system. The mayor may be addressed.

GALVESTON, TEX.—It is proposed to extend the 33d St. sewer at an estimated cost of $4,725. C. G. Wells is City Engr.

TULSA, IND. T.—It is reported that a sewer system is to be constructed at a cost of $46,000 and D. B. Merry and J. G. Patton, of this city, are Engrs.

COLORADO SPRINGS, COLO.—Sewer extensions have been planned, involving an expenditure of $14,000. R. H. Ashworth is City Engr.

SEATTLE, WASH.—Ordinances have been passed which provide for sewer construction to the extent of $31,000. R. H. Thompson is City Engr.

PORTLAND, ORE.—Council has passed resolutions for construction of vitrified pipe sewers. Estimated cost, $22,000. Chas. Wanzer is City Engr.

ST. JOHNS, ORE.—Bids are asked until Feb. 1 for the construction of a sewer system, to cost about $50,000. It is stated W. W. Goodrich is City Engr, address, Portland, Ore.

KLAMATH FALLS, ORE.—Question of bonding the city for purpose of installing sewer system is under discussion by the council.

REDLANDS, CAL.—The Board of Trustees has awarded the contract for the construction of a main sewer, three laterals and a septic tank to ARTHUR BENT for $19,447.

OCEAN PARK, CAL.—It is reported that this city has voted in favor of issuance of $20,000 of bonds to defray cost of extension of sewer system.

LOS ANGELES, CAL.—Ordinances have been drawn up providing for the construction of a number of sewers. H. J. Lelande is City Clerk.

GOLDFIELD, NEV.—The contract for the construction of the Goldfield sewer system has been let to BOOKER, PHILBRICK & FENNER for $26,000.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

BROOKLYN, N. Y.—The Board of Estimate has awarded contract to WILLIAM BRADLEY, 324 Third Ave., New York, for removing snow and ice from the streets of Brooklyn during the winter of 1905-1906. His was the lowest bid submitted after four advertisements.

DETROIT, MICH.—Bids were received on Dec. 11, for furnishing the city of Detroit with a municipal garbage disposal plant or plants, having an aggregate capacity of 200 tons per day. The following were received: Dixon Garbage Crematory Co., Toledo, O., four 50-ton plants, $80,000; Detroit Sanitary Works, plant at French Landing, Mich., increased to 200-ton capacity, including 13 acres of land and seven 2-story workmen's houses, $100,000; Lewis & Kitchen, Chicago, Ill.—plants of 100-ton capacity—Proposal A, storage capacity 50 tons, one plant, $26,540; two plants, $51,600; cost of cremation, 45c. per ton; Proposal B, storage capacity 60 tons, one plant, $31,860; two plants, $59,800; cost of cremation, 40c. per ton; Proposal C, storage capacity 100 tons, one plant, $35,650; two plants, $68,400; cost of cremation, 30c. per ton; Proposal D, storage capacity 120 tons, one plant, $41,080; two plants, $77,800; cost of cremation, 30c. per ton. Plants of 200-ton capacity, Proposal E, storage capacity 100 tons, $52,500; cost of cremation, 45c. per ton; Proposal F, storage capacity 120 tons, $51,680; cost of cremation, 35c. per ton; Proposal G, storage capacity 200 tons, $69,875; cost of cremation, 25c. per ton. There were received also bids from six firms which were declared to be irregular. In response to an advertisement inviting proposals for the disposal of garbage for terms of one, three, five and ten years, the following were received: Detroit Sanitary Works, Detroit, Mich.: One-year contract, $24,600 per year; three-year contract, $14,600 per year; five-year contract, $13,000 per year; ten-year contract, $12,000 per year; from the Detroit Reduction Co., Detroit, Mich., a bid for a ten-year contract, no compensation. If this proposal is accepted the company agrees, if desired, to dispose of all household and shop waste, office and street sweepings, and ashes, and all other rubbish, at 25c. per ton; and if ashes is kept separate from above, for 20c. per ton. Disposal of night soil, 25c. per barrel. The company agrees to sell its plant to the city at an appraised valuation at any time prior to the termination of the contract. F. A. Blades is Controller.

OCEAN PARK, CAL.—City has voted to issue bonds for $10,000 for a garbage incinerator.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

WALTHAM, MASS.—An appropriation of $10,000 is available to be used for paving Moody St. Bertram Brewer is Cy. Engr.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Dec. 27, by Martin W. Littleton, Pres. Boro., for furnishing material and paving with asphalt on Pitkin Ave. and W. 9th St. and for repaving Snydam Place. Engineer's estimate is as follows: 21,980 sq. yds. asphalt, 3,087 cu. yds. concrete, 470 lin. ft. new curb, 230 lin. ft. old curb reset, and 4 noiseless covers and heads complete for sewer manholes.

WATERTOWN, N. Y.—The Alexandria Bay-Clayton Boulevard Co. has been incorporated for the purpose of constructing and maintaining a boulevard between Alexandria Bay and Clayton, a distance of 12 miles. R. P. Grant, of Clayton, and H. A. Cornwall, of Alexandria Bay, are among the directors.

BUFFALO, N. Y.—Bids are asked until Dec. 28 for paving several streets. Francis G. Ward, Comr., Dept. Pub. Works.

LONG ISLAND CITY, N. Y.—Bids were opened Dec. 12 for paving Union Ave. with wood blocks, and for similar work on Third Ave. The U. S. Wood Preserving Co. was lowest bidder in each case, prices being $5,287 for the former and $34,130 for the latter.

SYRACUSE, N. Y.—Bids were opened Dec. 18 for paving a section of Tully St., and for similar work on Park Ave. For the former the Central City Paving Co., Syracuse, was lowest bidder at $20,071; and for the latter, the Warne-Quinlan Paving Co., of Syracuse, was lowest bidder at $8,666.

HERKIMER, N. Y.—Resolutions providing for a number of new roads have been passed by Board of Supervisors.

ROCHESTER, N. Y.—Ordinances have been passed providing for paving East Ave. at an estimated cost of $65,000. E. A. Fisher is City Engr.

HARRISBURG, PA.—It is stated that plans are being outlined for the paving of at least five miles of streets next summer. Bids may be made for the laying of "any approved paving material," subject to the petition of a majority of the owners of abutting property. No bid will be considered above $2 per sq. yd., and all materials must pass high grade tests. M. B. Cowden is City Engr.

BALTIMORE, MD.—It is proposed to construct a boulevard from the city limits to Roland Park, at an estimated cost of $30,000. H. G. Shirley is Roads Engr.

NORFOLK, VA.—An ordinance has been presented to the council providing for the pavement of Marshall Ave., and appropriating $13,270 for the work.

LIVE OAK, FLA.—It is reported that HUGGER BROS., Montgomery, Ala., have been awarded the contract for constructing 40 miles of rock road in Suwanee County, at $119,000.

MONTGOMERY, ALA.—Ordinances have been passed which provide for the paving of a number of streets. Allen R. Gilchrist is City Engr.

NEWPORT, KY.—J. B. Morlidge, City Engr., writes us that the Chesapeake & Ohio Ry., the Louisville & Northern Ry., and the city are preparing plans for the elimination of a grade crossing in Newport.

TOLEDO, O.—GARRIGAN BROS. have been awarded the contract for paving parts of East Broadway and Oswald St., at $14,480.

AKRON, O.—Council has voted to pave a section of Orleans Ave.

CANTON, O.—F. E. Myers, City Engr., writes us that considerable paving will be done in the near future.

UNION, IND.—The voters have decided to build 14 miles of gravel roads, and contracts will be let in January.

ROCHESTER, IND.—It is reported that bids are asked until Dec. 27 for about 20,000 sq. yds. of brick paving. W. M. Brown is Town Clk.

SPENCER, IND.—Bids are asked until Jan. 2 for the construction of several county roads. G. O. Mitten is County Auditor.

DANVILLE, IND.—The commissioners of Hendricks County will soon ask for bids for the construction of a gravel road in Franklin Township. David D. Mills is County Auditor.

BAY CITY, MICH.—The council has passed resolutions which provide for paving several streets.

KANSAS CITY, MO.—Bids will shortly be asked for the macadamizing of the Hickman Mill road for a space of five miles. Address the County Clerk.

DALLAS, TEX.—All bids for constructing eight intermediate county roads have been rejected, and County Engr. Uhl is shortly to advertise for new bids.

SANTA FE, N. M.—Council has voted to build a number of brick or cement sidewalks.

OLYMPIA, WASH.—It has been estimated that it will cost $22,000 to pave Main St., and matter will soon be acted upon definitely. J. B. Wedgell is Cy. Engr.

GEORGETOWN, WASH.—Ordinances have been passed for the paving of several streets at an estimated cost of $19,000.

SEATTLE, WASH.—Bids are asked until Dec. 30th for grading and constructing concrete walks on 19th Ave. North, at an estimated cost of $12,400, and for paving Westlake Ave. with asphalt, at an estimated cost of $40,000. R. H. Thompson is City Engr.

PORTLAND, ORE.—Council has passed resolution which provides for the outlay of $26,000 for paving. Chas. Wanzer is City Engr.

LOS ANGELES, CAL.—A boulevard between this city and Pasadena is under discussion. D. M. Linnard, of Pasadena, and F. J. Hart, of this city, are interested.

The contract for the paving of Speedway from Center St. to Saltair Ave. was awarded to the BARBER ASPHALT CO., 114 Liberty St., New York.

OAKLAND, CAL.—The contract for macadamizing Alcatraz Ave. from Shattuck Ave. to Telegraph Ave. was let to E. B. & A. L. STONE, for 6 4/10 cts. per sq. ft.

SAN FRANCISCO, CAL.—Bids will be asked for the purchase of bonds to the amount of $324,000 for street improvements. Thos. P. Woodward is City Engr.

SAN FRANCISCO, CAL.—The Board of Works was authorized to spend $8,000 for the improvement of Minna St. from Second to Third Sts. and $7,000 to repave Mission St. from Onondaga to the county line.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

INDIAN ORCHARD, MASS.—It is reported that the Chapman Valve Co. will erect a new factory at this place.

MAYNARD, MASS.—It is reported that the American Woolen Co., of this place, will build a 5-story storage warehouse, 50 × 100 ft.

BOSTON, MASS.—C. A. DODGE & CO., 8 Beacon St., have been awarded contract for constructing a factory building for W. T. C. McAllen & Co., 388 Congress St. M. D. Safford, "A" St., South Boston, is Arch. Cost, about $125,000.

WATERBURY, CONN.—It is reported that the French Mfg. Co., of this city, will erect a plant for the manufacture of tubing.

NORWALK, CONN.—The Ernest Simons Mfg. Co. has purchased a site on Main and Union Sts., where a new factory building will be erected.

BRIDGEPORT, CONN.—Plans are being prepared by Meloy & Beckwith, Archs., Bridgeport, for a factory building on Carbon and Washburn Sts., for Whipple & Choate. It will be two stories, 50 × 100 ft., frame construction.

It is reported that C. L. Snyder, representing the Wolverine Motor Works, is contemplating the erection of a new plant at this place.

NEW YORK, N. Y.—Plans have been filed for a 2-story and basement brick switch house, 50 × 99 ft., at 49th St. and East River, for the New York Central & Hudson River Railroad Co. Reed & Stem, 5 East 42d St., New York, are Archs. Cost, $90,000.

STATEN ISLAND, N. Y.—The contracts for the 800 tons of steel rails for the tracks leading to the new steel plant and rolling mill to be erected here by Milliken Bros., 11 Broadway, New York, was awarded to the Pennsylvania Steel Co. The contract for the switches will go to the same firm. The order for the five yard locomotives has been placed with the H. K. Porter Co. The contracts for the 40-in. blooming mill, the 32-in. roughing mill, and the 28-in. finishing mill have been placed with McIntosh, Hemphill & Co., of Pittsburg, Pa.

LONG ISLAND CITY, N. Y.—THE MILLER-COLLINS CO., Contracting Engrs., 1133 Broadway, New York, have been awarded the contract for designing and erecting the new foundry for the Union Ballast Co. at Long Island City.

NEW YORK, N. Y.—Plans have been completed by C. Duane, Arch., 320 West 26th St., New York, for an 11-story brick factory at 18-20 West 21st St., for J. D. Robinson, 34 West St., New York. Cost is $100,000.

Plans have been completed for a 2-story brick and stone factory building on 1324 St., near St. Ann's Ave., New York, for Rice & Son, 144th St. and Southern Boulevard. A. E. Davis, 494 East 138th St., is Arch.

PHŒNICIA, N. Y.—It is reported that the Parson Stoker Co. contemplates the erection of a plant at this place, to manufacture furnaces and steam apparatus.

SYRACUSE, N. Y.—It is reported that E. K. Butler will erect a furniture factory on Spencer and North Clinton Sts., at a cost of $100,000. Proposed building will be five stories, 85 × 100 ft.

ALBANY, N. Y.—It is reported that McDonald & Co. will erect a new plant here for the manufacture of gas meters.

SELLERSVILLE, PA.—Plans have been prepared by I. S. Conver, Arch., Lansdale, Pa., for a clothing factory for S. R. Messick, of this place.

CORRY, PA.—It is reported that the Wellman Mfg. Co., of Rochester, N. Y., will erect a new plant at this place for the manufacture of hardware specialties.

PALMYRA, PA.—It is reported that W. L. Kreider's Sons, shoe manufacturers, will enlarge the plant recently purchased from the Eagle Knitting Mills. It is stated that the intention is to equip the new addition with modern machinery for the manufacture of shoes.

CLAIRTON, PA.—The Carnegie Steel Co. has plans to erect an 18-in. merchant steel bar mill, with a capacity of 10,000 tons a month, at this place. Cost, $250,000.

PHILADELPHIA, PA.—WM. STEEL & SONS, 16th and Arch Sts., have received the contract for constructing a large bakery at 23d and Clearfield Sts. Complete power plant and machinery will be required.

MIDDLESEX, PA.—WM. B. SCAIFE & SONS CO., 221 First Ave., Pittsburg, Pa., has been awarded the contract for constructing the structural steel engine house for the Cherry Valley Iron Co. Size 50 × 50 × 100 ft.

ALLEGHENY, PA.—The Adams Express Company has awarded to ROYDHOUSE, AREY & CO., Fidelity Building, Philadelphia, the contract for its building on West Stockton Ave., Allegheny. The building will be a 2-story brick and stone structure with freight elevators and big offices on the first floor. Cost, $100,000.

BALTIMORE, MD.—We are informed that F. C. Wachter, 211 West German St., Baltimore, will erect an addition to his present steam pressing and drying plant. The addition will be 60 × 90 ft.

Plans are in progress for a 3-story factory building, 60 × 100 ft., for the St. Mary's Industrial School, on Wilkes Ave. The structure will be of stone and will conform in architecture to the other buildings of the group.

MORROW BROS. have received the contract for the superstructure of the 3-story factory building for Fred. Bergner & Co., Paca and Cross Sts. The factory is 149 × 149 ft. J. E. Sperry, 30 Builders' Exchange, Baltimore, is Arch.

JAMES F. FARLEY has been awarded the general contract for the 6-story factory building at 108 West Fayette St., for M. D. Martin, of York, Pa.

NEWPORT NEWS, VA.—CUTLER BRO. have been awarded contract for the Newport News National Bank building.

RICHMOND, VA.—Preparations are being made for the enlarging of the Atlantic Locomotive Works to nearly double present size.

HUNTINGTON, W. VA.—It is reported that the American Car & Foundry Co. will erect a plant at this place, costing $1,000,000.

HIGH POINT, N. C.—It is reported that H. O. Pitts is interested in the erection of a $250,000 concrete block factory at this place.

LEAKSVILLE, N. C.—It is reported that the German-American Co. will erect a large plant at this place. No further details.

GLASS, N. C.—Plans are in progress for a cotton mill for James W. Cannon at this place. Power will in all probability be obtained from the Whitney works on Catawba River.

LINCOLNTON, N. C.—It is reported that J. H. Rhodes is at the head of a company which is to erect a large mill at this place.

GRIFFIN, GA.—It is reported that the Central Mills Co. will expend nearly $50,000 in the erection of an addition to its present plant here.

BIRMINGHAM, ALA.—It is reported that Payne & Joubert, of New Orleans, La., will erect a new factory here for the manufacture of engines and machinery.

MEMPHIS, TENN.—It is reported that the Bartholomew Roofing Co. will erect a new building, 75 × 175 ft.

PADUCAH, KY.—It is reported that H. T. Morgan will erect a plant here for the manufacture of butchers' tools.

It is reported that J. J. Shepherd, of Pittsburg, Pa., will erect a flour mill at Paducah, costing about $100,000.

FREMONT, O.—It is reported that a company is being organized for the purpose of taking over the business of the Blue Cultivator Co., of this place. Plans are to erect a new factory building.

CLEVELAND, O.—The Engerine Co., Cuyahoga Bldg., is having plans drawn for a 1-story brick and steel fireproof oil refinery in this city. Cost is about $300,000.

FOSTORIA, O.—The Seneca Wire & Mfg. Co. has planned the erection of a new plant here for the manufacture of nails. R. Crocker is a director.

GRAND RAPIDS, MICH.—Plans have been completed for a 3-story fireproof cold storage warehouse for the Furniture City Brewing Co. Size, 30 × 100 ft.

TWO HARBORS, MICH.—GEORGE H. SPURBECK received the contract to build the steel car and tank shops for the Duluth & Iron Range Railway. The building will be 80 × 200 × 34 ft., frame, covered with corrugated iron.

WALKERVILLE, MICH.—It is reported that the Wolverine Reed Co., of Detroit, will erect a new chair factory here.

DELRAY, MICH.—The Monarch Coupler Company, Mackie and Crossley Aves., prepared plans and have let contracts for a steel casting plant to adjoin their factory, as follows: General contract, WILLIAM SMYTH & SON, Pittsburg, Pa.; structural steel, the RUSSEL WHEEL & FOUNDRY CO., Joseph Campau Ave. and Michigan Central Railroad, Detroit; cranes, the AMERICAN ENGINEERING CO., 827 Chamber of Commerce, Detroit.

DETROIT, MICH.—It is reported that the Prince Handle Mfg. Co. will erect a new factory here.

DETROIT, MICH.—Bids have been received by Chittenden & Kotting, 1325 Penobscot Bldg., for the erection of a plant for the Wayne Automobile Co. Plant will be three stories, 54 × 680 ft.; testing building, one story, 36 × 100 ft.; boiler and engine house, one story, 36 × 45 ft., and a smokestack 6 ft. diam., 80 ft. high.

Plans are complete for a plant for the D. H. Roberts Brass Co., 405 Campbell Ave. It will be 65 × 200 ft. Pollmar & Ropes, 23-24 Cleland Bldg., are Archs.

Plans have been completed by Rogers & Macfarlane, Archs., 1310 Penobscot Bldg., for a brick and concrete factory building for the National Cutlery Co. F. S. Staepel, 16 Atwater St., Detroit is Secy.

JOLIET, ILL.—The United States Steel Corporation, 71 Broadway, New York, will erect a blast furnace here, costing $1,000,000.

CHICAGO, ILL.—The American Can Co., 11 Broadway, New York, have plans in progress for its new 9-story factory and office building on Kingsbury and Illinois Sts., Chicago. It will be 110 × 300 ft., mill construction. The two upper floors will be used as offices. A power plant will be installed in the V at rear.

DECATUR, ILL.—It is reported that the Wabash Railroad will erect a large ice plant at this place.

MANLIUS, ILL.—It is reported that Frank May will erect a large grain elevator at this place.

CHICAGO, ILL.—Plans have been completed for the erection of a $600,000 grain elevator here by the Atchison, Kansas & Topeka Railway Co.

NORTH MILWAUKEE, WIS.—It is reported that W. & T. Avery, of Birmingham, England, will erect a new scale factory here.

A. D. Meiselbach, of Chicago, Ill., has purchased a site in this place where it is reported he will erect an automobile factory.

MILWAUKEE, WIS.—Harrison S. Green, 120 Wisconsin St., announces that the recently incorporated Welch-Estberg Co., of which he is a member, will build a plant for the manufacture of automobiles. The site has not been secured and plans have not been prepared.

MARSHALL TOWN, IA.—A new foundry will be erected here by the Lennox Furnace Co., for the manufacture of iron castings. Size, 50 × 1[illegible] ft.

DAVENPORT, IA.—It is reported that U. N. Roberts & Federal and Case Sts., will take figures about Dec. 28 for additional wood-working machinery for new $20,000 sawmill and factory.

SIOUX CITY, IA.—The Morley Twine Co. has purchased a tract of land at Seventh and Division Sts., where a plant, consisting of a main building, two warehouses and an office building will be built. The buildings will cost $[illegible], not including equipment.

PRATT, KAN.—It is reported that a new grain elevator will be erected by the Pratt Mill & Elevator Co. at this place. The cost will be near $100,000. J. S. Barnes, of Pratt, is interested.

OMAHA, NEB.—The Carpenter Paper Co. has appointed John Latenser, Arch., 422 Bee Bldg., to draw plans for a warehouse on Ninth and Howard Sts. Size of plot is 132 × 132 ft.

SPRINGFIELD, MO.—It is reported that the Ozark Blast Furnace Co., of Kansas City, will erect a coke furnace here, with an annual capacity of 70,000 tons.

KANSAS CITY, MO.—Plans have been completed for the erection of an oil refinery and two tanks for the Kansas City Oil & Gas Co. at this city.

TEXARKANA, ARK.—Plans have been completed for a 2-story factory building, 80 × 250 ft., at this place. Cost will be $50,000. Oster Horn, Sixth and Carr Sts., St. Louis, Mo., is Arch.

PUEBLO, COLO.—It is reported that the Colorado Fuel & Iron Co., of Denver, will improve its plant to the extent of $10,000,000.

SEATTLE, WASH.—It is reported that the Hydraulic Mfg. Co. will erect a new plant here for the manufacture of water and gas pipe, and mining supplies. Cost, $100,000.

CORNELIUS, ORE.—It is reported that a new factory is to locate here. The establishment will manufacture baskets, ax handles and broom handles.

OAKLAND, CAL.—The Charles A. Waltz Safe & Lock Co., of San Francisco, has purchased a frontage of 254 ft. on Fifth St., between Chestnut and Adeline Sts., where a large factory is to be built.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

FIRE ALARM SYSTEM.—Kokomo, Ind.—The city council has decided to construct an entirely new fire alarm system.

WHARF.—Fort Monroe, Va.—Bids are asked until 12 m., Jan. 8, for repairs to coal wharf here. P. C. Hains, Jr., Q.-M.

DITCHES.—Lebanon, Ind.—Bids are asked until Dec. 28 by Richard T. Pennell, Comr., for construction of three ditches in Boone County.

DITCH.—Iowa City, Ia.—Bids are asked until Jan. 3, 2 p. m., for excavation of a drainage ditch in sections 25, 35, 36. L. J. Baschnagel is County Audr.

SCOW.—Wilmington, N. C.—Bids are asked until noon, Jan. 15, for one 4-pocket bottom dump scow. Capt. R. P. Johnston, Corps Engrs. (Advertised, Engineering News.)

COAL WHARF.—Harrisburg, Pa.—The Pennsylvania Railroad Co. may erect a coal wharf in Harrisburg. It will be equipped with the latest coal-handling appliances.

WALL.—Oakland, Cal.—The Board of Works has awarded a contract to the PIEDMONT PAVING CO. to construct a rock wall along the Harrison Boulevard, at a cost of $5,100.

CANAL.—Montana.—It is reported that the WIDELL-FINLEY CO., of Mankato, Minn., has been awarded the contract for construction of the Glendive, Mont., irrigation canal. Bids were advertised in Engineering News on Sept. 28.

LOCOMOTIVES.—Colorado.—The Secretary of the Interior, Washington, D. C., has authorized the purchase of two electric locomotives for use in connection with construction work on the Uncompahgre Valley project, Colorado.

DAM.—San Leandro, Cal.—T. B. RUSSEL, a local contractor, has been awarded the contract for the construction of a dam in San Lorenzo creek, on the H. W. Meek estate. It will be constructed of concrete, and will cost about $8,000.

LEVEE.—New Orleans, La.—Bids are asked until 11 a. m., Dec. 26, for constructing about 261,000 cu. yds. of levee work in the Lafourche Levee district. Capt. J. F. McIndoe, Engrs., may be addressed at 3232 Prytania St., New Orleans, La.

COTTON HOSE.—Glasgow, Mont.—We are informed that this city is in the market for 1,000 ft. of cotton hose, 2½-in. St. Paul standard couplings; hose cart, with 7-ft. wheels; two 1-in. nozzles; coats, hats, axes, etc.; also chemical outfit for small town. A. W. Mason is Cy. Engr.

DREDGE BOAT.—Onawa, Ia.—A. E. JOHNSON, of Sioux City, Ia., has been awarded the contract for building the dredge boat for the Ferris-Kessel Co., which has the contract on the Morrison-Harrison ditch, south of the Oliver lakes. The total cost of the dredge boat will be about $55,000.

TUNNEL.—Chicago, Ill.—Bids are asked until 11 a. m., Dec. 23, by Joseph M. Patterson, Comr. Public Works, for constructing a Portland cement concrete-lined water tunnel about 22,700 ft. long, including certain shafts. This tunnel is Section No. 1, Southwest Land Tunnel. (Advertised, Engineering News.)

VESSEL REPAIRS.—San Francisco, Cal.—Bids for the repair of the steamship Roanoke, which was badly damaged while trying to cross the Eureka bar, were opened on Dec. 9 at office of C. P. Doe & Co., San Francisco. The bid of Moore & Scott Iron Works, at $12,500, to repair the vessel, was the lowest received.

READERS' WANTS

Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who handle the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractors' material, methods, etc. Mention Engineering News when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and without charge.—Engineering News can help buyers.

AGRICULTURAL IMPLEMENTS.—Lake, N. C.—C. S. Green, of Lake, is reported in the market for mowing machines, etc.

ALUMINUM WIRE.—Monroeville, Ala.—T. M. McMillan is understood to be in the market for a quantity of aluminum wire.

DITCHING MACHINERY.—Scottsboro, Ala.—D. K. Caldwell, of Scottsboro, writes us that he wants the names of manufacturers of ditching machinery.

BRICK MACHINERY.—Charleston, W. Va.—Davidson Bros., Charleston, and the Macon Brick Co., 253 Third St., Macon, Ga., are in the market for brick machinery.

TRAVELING CRANES, CASTINGS, ETC.—Paterson, N. J.—The Fred Baker Co., 54 Vine St., writes us that it wants the names of firms handling traveling cranes.

STEAM SHOVEL.—Kettle Falls, Wash.—The Fruitland Irrigation Co., A. R. Squire, 135 Adams St., Chicago, Ill., and Kettle Falls, Wash., writes us that it is in the market for a three-quarter to one-yard steam shovel, traction engine, etc.

SANDSTONE BLOCK PAVEMENT.—Lynchburg, Va.—H. L. Shaner, Cy. Engr., writes us that as the council is considering the question of sandstone block paving, it is desired to get into correspondence with concerns handling such material.

SEWER TRAPS, COVERS, JACKS, BRACES, ETC.—Pentwater, Mich.—F. F. Wetmore, County Surv., writes us that he wishes to be placed in correspondence with firms who handle the above for sewer work, as the village of Hart, Mich., is planning a sewer system.

VACUUM SYSTEM.—Cleveland, O.—A. E. Cummer, vice-Pres., F. D. Cummer & Son Co., Cleveland, writes us that he wishes to correspond with a firm that manufactures a system by which a liquid can be drawn into a tank by vacuum, and then the liquid forced out of the same tank by pressure.

ARTESIAN WELL CONTRACTORS.—Greenville, S. C.—L. V. Cox, of Greenville, writes us that he wishes to be placed in correspondence with reliable parties who dig wells.

CONCRETE MIXERS, AERIAL ROPEWAYS, ETC.—South Africa.—James Coolie, Engr. and Contractor, P. O. Box 342, Cape Town, South Africa, writes us that he will soon be in the market for concrete mixers, aerial ropeways, etc., for reservoir work. Catalogues giving capacity, prices, weight, etc., are wanted at once.

HOISTING APPARATUS, CRUSHING AND GRINDING MACHINERY, AIR COMPRESSORS, AIR TOOLS, ETC.—Toronto, Ont., Can.—The Roman Stone Co., 99 Marlboro Ave., Toronto, writes us that it is in the market for the above, and wishes catalogues at once. It is especially desired to receive catalogues from firms making electric hoisting apparatus.

ELECTRIC RAILWAY EQUIPMENT.—New York, N. Y.—We are informed that parties are wanting electric road equipment as follows: 25 miles of 60-lb. rail, with angle bars; ties, 8 ft. long; 1,000 round peel poles, 35 to 45 ft. high; brackets, 7 ft. long; trolley and feed wires, bonds, insulators, etc., for a 35-mile line, and also a 100-ft. drawbridge, single track, twin engine, 16 × 22 cylinders, 3-valve automatic, etc. Address "E. H. F.," care Engineering News, New York.

BOILERS AND ENGINES.—It is reported that boilers and engines are wanted by the following: Jas. A. Dezel, of Mt. Pleasant, Fla.; Bd. Bond Trustees, Jacksonville, Fla.; Navidad Rice Co., B. Brown, Pres., Houston, Tex.; Samson Mfg. Co., Samson, Ala.; Leesville Mfg Co., Leesville, S. C.; R. S. O'Neil, Gurdon, Ark.; J. J. Hucket, Ashland, Ala.; Robt. Poynor, Franklin, Tenn.; D. E. Whitstone, Lake City, Fla.; W. E. Small Chair Co., Corinth, Miss.; Fulton Bag & Cotton Mills, Atlanta, Ga.; Macon Brick Co., Macon, Ga.; J. C. Hollingsworth, Mt. Airy, N. C.

RIPRAP STONE.—Washington, D. C.—Lieut.-Col. R. L. Hoxie, U. S. Engrs., Washington, has awarded contract for riprap stone to be delivered at Carter's Creek, Va., to CHARLES T. SMITH & SON (Potomac Stone Co.), 3218 K St., N. W., Washington, for $2.48 per cu. yd., measured on flat scows. Bids were opened on Dec. 4.

WHARF.—San Quentin, Cal.—It is reported that the Bureau of Equipment, of the Navy Department, Washington, D. C., will award a contract to SNARE & TRIEST, 143 Liberty St., New York, for the construction of a wharf at California City for the new coaling station, at a cost of $160,000. The Demayo Coaling Co.'s coaling machines will be installed.

CANAL LOCK.—Chicago, Ill.—Bids are asked until noon, Dec. 27, for constructing a canal lock, movable dams and fender wall. This work is part of the water power development now being made near Lockport, Ill., and is to be located near the power house now being built on Section No. 2. Zina R. Carter, Pres. Bd. of Trustees, Sanitary Dist. of Chicago. (Advertised, Engineering News.)

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Jan. 9, for furnishing at the naval station, at New Orleans, La., and at Pensacola, Fla., Navy Yard, the following supplies: Schedule 290—Weather-proof wire, electrical supplies, fire extinguishers, railroad cross ties. Schedule 291—Bolts and nuts, yellow pine decking, slab zinc, shackels and swivels. H. T. B. Harris, Paymaster-Gen., U. S. N.

WHARF.—Charleston, S. C.—Bids were received on Dec. 1 for building iron pile wharf at Fort Moultrie, Sullivans Island, S. C., by Capt. G. P. Howell, U. S. Engrs. It is reported that the following bids were received: Simons-Mayrant Co., Charleston, $11,212, to be completed in four months; Atlantic Dredging Co., Philadelphia, $11,017, six months; Grant Wilkins, Atlanta, Ga., $17,945, six months; J. Edward Ogden, 147 Cedar St., New York, $15,938, six months; Dean, Schwiers & Sutton Co., 136 Liberty St., New York, $17,912, four months.

CANAL.—Washington, D. C.—The Secretary of the Interior has awarded contract to W. O. Morrison, of Denver, Colo., at $139,877, for the construction of schedules one and two, Interstate Canal, North Platte project, Nebraska and Wyoming. This contract is for the first structures on the canal, and includes concrete culverts, siphons, drops, flumes, wasteways, bridge abutments, etc., and furnishing ten combination highway bridges and 570,000 pounds of steel. The total amount of concrete is about 10,000 cu. yds., and the work is to be done along the line of the interstate canal from Whalen to Torrington, Wyo.

LUMBER, TIES.—Washington, D. C.—Bids were opened on Dec. 14, at the office of D. W. Ross, General Purchasing Officer, Isthmian Canal Comn., for lumber and hewn cross ties. The following bids were received: For 5,330,000 ft. B. M., of yellow pine lumber, various sizes: Panama Lumber & Trading Co., New Orleans, $149,986; Anguera Lumber Co., 255 Monadnock Blk., Chicago, $165,277; Wheatley Brothers, Washington, D. C., $183,295. Brown & Co., Brunswick, Ga., for 200 M. hewn cypress R. R. cross ties, 7-in. × 9-in. × 9 ft., per M., $1,075; for 50 M. same, per M., $987; for 100 M., same, per M., $1,025; for 200 M., hewn cypress R. R. cross ties, 7-in., × 9-in. × 8½-ft., per M., $945; for 150 M., same, per M., $987; for 100 M., same, per M., $1,025. William P. Cook & Co., 100 Wall St., New York, for 200 M. hewn cypress ties, 7-in. × 9-in. × 9-ft., per M., $870; for 50 M. hewn cypress ties, 7-in. × 9-in. × 8½-ft., per M., $840. George S. Baxter & Co., 17 William St., New York, for 200 M. ties, 7-in. × 9-in. × 9-ft., per M., $890; for 200 M. ties, 7-in. × 9-in. × 8½-ft., per M., $790. (These figures were probably reversed accidentally by bidder.) Panama Lumber & Trading Co., New Orleans, for 200 M. cypress sawn ties, 7-in. × 9-in. × 8-ft., per M., $1,470; for 200 M. cypress sawn ties, 6-in. × 8-in. × 8-ft., per M., $1,190.

DREDGING.—Philadelphia, Pa.—Bids were received by Bureau Yards and Docks, Navy Department, Washington, D. C., on Dec. 16, for dredging and filling at League Island Navy Yard. An appropriation of $77,000 is available for the work. This is the third time advertisements have been issued for this work, bids having been once rejected, and the second time no bids having been received. The following bids were received: Charles Vivian & Co., Islip, L. I., N. Y., 24.85c. cu. yd.; Henry Steers, 17 Battery Pl., New York, N. Y., 22.4c. cu. yd.; Bowers Hydraulic Dredging Co., 101 Market St., Camden, N. J., 44.5c. cu. yd.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

TIMBER.—Panama.—The Panama Canal Commission has awarded contract for 5,330,000 ft. B. M. of yellow pine timber to the PANAMA LUMBER & TRADING CO., of New Orleans, La., for $140,960. Bids were opened December 14th.

STEEL RAILS, ETC.—Panama.—Specifications will shortly be issued by the Isthmian Canal Commission for 5,000 tons of 70-lb. steel rails, with necessary angle bars. Also for a large order of miscellaneous supplies, including 5,350 switch ties of various sizes and 1,200 bars staybolt iron.

DREDGING.—Guantanamo, Cuba.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, until 11 a. m., Jan. 20, for dredging at the naval station, Guantanamo, Cuba. Funds available, $40,000. Specifications are on file at office of Engineering News, New York. Mordecai T. Endicott, Ch. of Bureau.

MACHINERY.—Honolulu.—Bids are asked by H. D. Wishard, Chn. Bd. Supervisors, County of Kauai, Hawaii, until 9 a. m., Jan. 2, for roller, one rock crushing plant complete, two traction engines, one sprinkling cart, ten spreading dump carts for macadam, two graders. Copies of specifications may be had by addressing C. H. Sweetser, County Road Supervisor, Lihue, Kauai.

MONUMENT.—Manila, P. I.—It is announced that a public competition has been opened for designs for the erection of a monument to José Rizal, a Filipino writer and poet. Prizes of $12,500 and $5,000 are to be awarded for the two designs which are adjudged best. Particulars may be obtained from Señor Maximino M. Paterno, Secy. to the José Rizal Monument Commission, 162, Calle San Sebastian, Manila.

RAILROAD.—Alaska.—It is reported that the Alaska Central R. R. Co. has awarded contracts for rock excavation on an extension of 100 miles as follows: To RICH & HARRIS, a $300,000 contract for tunnel rock excavation; to WELSH & LARSON, Spokane, Wash., a $1,250,000 contract, covering 30 miles of rock excavation to be completed this winter. Preliminary surveys have been made to a point near Fairbanks, on the Tanana River, a distance of 463 miles from Seward. This company now operates 30 miles of line. A. C. Frost is Pres., 108 La Salle St., Chicago. W. B. Poland is Ch. Engr. and Gen. Mgr., Seward, Alaska.

ELECTRICAL EQUIPMENT.—Cuba.—The WESTINGHOUSE ELECTRIC CO., Pittsburg, Pa., has been awarded contracts, it is said, for the following: For the Sugar Plantation Co., of Jatimonico, two 300-HP. generators and two motors of similar capacity. For the Santos Jacito Sugar Co., of Guantanamo, a 200-HP. Westinghouse steam engine, a 200-HP. generator and a number of motors, with switchboard appliances. Two electric sugar plant equipments for the Obi Stillman & Co., of Havana, for factories near Limones. The Guantanamos Company has contracted for electrical machinery for one of its factories, at a cost of about $75,000. The cost of all the electrical apparatus to be installed is about $200,000.

RAILWAYS.—Philippine Islands.—Bids were received on Dec. 15 by the Insular Bureau of the War Department for concessionary grants to be made by the Philippine government for the construction, maintenance and operation of railroads in the Philippine Islands. It is estimated that the railway lines to be constructed will aggregate about 1,233 miles. The Philippine government will guarantee for a period not exceeding 30 years the punctual payment by the grantee of interest at a fixed rate, not exceeding 4% a year, on first lien bonds issued by the grantee to an amount of 95% of the actual cost of construction and equipment. The points to be considered contemplate the lines of railway which a bidder will construct and operate without any guarantee; the rate of interest to be guaranteed; the duration of guarantee, and what percentage less than 95% of the cost of construction the bidder will accept. Speyer & Co., 24 Pine St., New York, offered to construct about 425 miles of railway in Luzon without guarantee, in connection with the existing Manila Railway Co., Limited, which now has in operation more than 200 miles. Morris McMicken, G. Gresskens, G. Poncin, Jacob Furth and E. C. Hughes, of Seattle, Wash., offered to build 100 miles of railway in southern Luzon, designated in the circular as land No. 6. They agreed to complete the road in three years, instead of one year. Kean, Van Cortlandt & Co., J. G. White & Co., Charles M. Swift, with whom are associated Cornelius Vanderbilt, R. T. Wilson & Co., and the International Banking Corporation, offered to build 100 miles on Panay, 100 miles on Negros and 65 miles on Cebu. Their bid stated that the construction would be done by J. G. White & Co., 49 Exchange Pl., New York city. There was no competition for the concessions in northern Luzon nor in Panay, Negros and Cebu, and no bids were submitted for grants in Leyte or Samar. The bid of the Seattle contractors was for the proposed line in southern Luzon from Pasacaco to Legaspi, with branches. This line also is included in the bid of Speyer & Co., the former asking for a guarantee, and the latter none. Speyer & Co. asked for concessions to build branches of the existing Manila & Dagupan Railway, and it is said that if the bid of Speyer & Co. is accepted it probably will result finally in the operation under one management of 633 miles of railway on Luzon. The bid of Speyer & Co. was for the line from Manila to Batangas and branches to Santa Cruz and to Lucena, the line from Dagupan to San Fernand and the line from Pasacao to Legaspi, with branches.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

ELECTRIC RAILWAY.—Holland.—An electric railway is projected from Amsterdam to Laandam and Koog.

ELECTRIC TRACTION.—Italy.—Large electric traction undertakings are at present being considered at Pisa and Livourne.

ELECTRIC INSTALLATION.—Austria.—The town of Feldkirch (Bregenz) intends spending 3,000,000 crowns for electric installations.

POWER STATION.—France.—The Societe des verreries réunies de Valterysthal et Portieux intends constructing at Portieux (Vosges) a central electric power station to be employed in all its works.

ELECTRIC STATIONS.—Italy.—A new company, with headquarters at Bologne, called the "Societa Esercizi riuniti di Empresa elettriche," intends constructing central electric stations at Urbino, Firmigrano, Forli and different other towns.

WATER SUPPLY, ETC.—Spain.—The Alcadia Constitucional intend applying for a loan of 2,500,000 francs with a view to carrying out certain electrical undertakings and for the purpose of obtaining a suitable system of water supply for Avila.

PLANT.—Belgium.—The Societe des Charbonnages du Hazard, Micheroux, intend constructing a large plant for the purpose of transporting power for the operation of its concession at Cheratte. This same company is at present considering several other important undertakings.

LEAD MINE.—France.—The Societe des Mines de San Antonio has been formed for the working of a lead mine situated in Spain, province of Ciudad-Real. The capital has been fixed at $80,000. The board of directors consists of: G. Auberty, Courbevoi (Seine); le Marquis de la Ferti-Senectere, rue de Varennes, 56, Paris; A. Raux, Rue Pierre l'Hermite, 3, Paris; Walfroy de Marcilly, Avenue de Clichy, 48, Paris. The company's headquarters are situated at No. 3 Rue Pierre l'Hermite, Paris.

ELECTRIC PLANTS, ETC.—Spain.—Casimir Pando Arguelles intends constructing a large electric station, and for this purpose has asked permission for the Government of Vizcaya to derive 436 litres of water from the Ochatearena, Orcochoste and other streams in the jurisdiction of Barrundia y Gamboa. The height of the fall will be 194 metres.—Domingo, Elizando & Co.,

of Navarra, have just been granted the concession of the Pamplona-Sanguisa electric railway.—The Societe Solvay & Co., Brussels, has requested permission through its representative in Spain to derive 300 litres of water per second from the Torrelavega.—Don Pabla Pradera y Astarloa has asked permission from the Public Works Dept. to derive 400 litres of water per second from the rio Pineda, Pineda de la Sierra. This force would be transformed into hydro-electric energy for different projects, which Mr. P. Pradera has in view.—The "Societe ananyme des Chemins de fer de Catalogne" (The Catalogue Ry. Co., Ltd.) has been formed at Brussels, for the purpose of acquiring and constructing in Spain and other countries railways, tramways, electric power stations, etc. The "Compagnie internationale de Tramways" has just granted to this company the concession of the Flassa-Palamos line, and the order for the material in connection with same.—The Societe de Tranvias de la Coruna, proprietors of the Coruna tramway system, intends increasing its capital from 500,000 francs to 1,625,000 francs in order to extend its lines at Puente de Monecio and at Burgo. At the same time it intends introducing electric traction on its systems.—Mr. Julio Daisson-Daisson intends constructing a large electric plant, and for this purpose has requested permission to derive 13,000 liters of water per second from the Rio Esra, commune of Campo.—Mr. Eugenio Paly Vives, representing Hipolito Maria Cipriano Ganzad, has requested permission from the Minister of Agriculture to derive 10,000 litres of water per second from the rivers Garona and Toran, in order to supply motive power for a paper mill which he intends constructing at Camilan.—The "Sociedad anonima Traccion electrica de la Loma" is the name of a new company which has been formed at Linares (province of Andalousie) for the purpose of constructing an electric tramway 27 kilos. long at Baiza and the agricultural district of Loma (Ubeda, Rus, etc.) The construction of the system has been entrusted to the "Industria electrica," to whom offers are to be made.—Antonio Arroyo, of Santo Columbo de Curueno, intends constructing a large hydraulic plant. He will derive 5,000 litres of water from the rio Porno, territory of Lugan, for the purpose of supplying his turbines.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

WATER-MAINS.—New York, N. Y.—Bids were received on Dec. 13 by the Department of Water Supply, Gas & Electricity, for furnishing and laying water-mains in Columbus and Ninth Aves., in 62d St., in Central Park West and in Central Park. The bids were as follows: (1) Continental Asphalt Paving Co., 42 Broadway; (2) E. Schroder, 141 Broadway:

Bids Received at New York, N. Y., December 13, 1905, by Department of Water Supply, Gas and Electricity, for Furnishing and Laying Water Mains, in Columbus and Ninth Avenues, 62d Street, Central Park West, and in Central Park.

Items.	Quantities.	(1)	(2)
Straight pipe	7,800 tons	$29.30	$32.80
Spec. castings	500 "	65.00	62.50
Rock excavation, without blasting	5,500 cu. yds.	5.00	4.00
Rock excavation	2,500 "	3.50	4.05
Masonry excavation, without blasting	1,000 "	3.50	4.00
Earth excavation	34,000 "	.80	.70
Filling and embankment	54,000 "	.10	.20
60-in. pipe	1,100 lin. ft.	4.00	2.20
48-in. "	14,500 "	2.50	1.75
36-in. "	5,300 "	2.00	1.20
20-in. "	250 "	1.75	1.10
24-in. "	100 "	1.25	1.00
20-in. "	700 "	1.00	.80
12-in. "	23,000 "	.50	.50
6-in. "	6,500 "	.30	.25
48-in. inside screw gate valve and gearing to set on end	1	1,300.00	1,400.00
48-in. inside screw gate valves and gearing to lay on side	3	1,300.00	1,400.00
36-in. " " " " "	2	670.00	600.00
30-in. " " " " "	2	450.00	400.00
24-in. " " " " "	1	330.00	300.00
20-in. inside screw gate valves and boxes	3	175.00	150.00
12-in. " " " "	175	55.00	60.00
12-in. inside screw gate valves for blow-offs and boxes	7	60.00	60.00
6-in. outside screw gate valves and boxes	161	40.00	40.00
Double-nozzle standard N. Y. hydrants including lead-lined drain pipe	159	50.00	50.00
20 x 20-in. connection to make without shutting off water	2	360.00	300.00
20 x 12-in. connection, without shutting off water	2	150.00	150.00
20 x 6-in. connections to make without shutting off water	3	125.00	100.00
Blow-offs to set	7	60.00	10.00
24-in. vertrified drain pipe	100 lin. ft.	2.25	2.00
18-in. " "	100 "	1.75	1.55
12 in. " "	200 "	1.00	.70
6-in. " "	3,000 "	.30	.50
Brick masonry	750 cu. yds.	15.00	15.00
Concrete masonry	750 "	8.50	7.00
Rubble masonry	300 "	4.00	4.00
Dry stone masonry and rip rap	300 "	2.50	1.50
Part wall to rebuild and restore	50 lin. ft.	7.00	7.00
Puddling	3,500 cu. yds.	1.50	1.00
Sodding and garden mold	2,500 sq. yds.	1.50	1.00
Asphalt pavement and asphalt or artificial stone sidewalk	6,200 "	2.80	3.25
Granite block pavement on concrete foundation and tar and gravel or cement joints	250 "	2.00	1.50
Telford macadam pavement, driveway, bridal and foot paths	1,500 "	1.00	2.00
Pavement and flagging	19,000 "	.60	.20
Curb and gutter	2,500 lin. ft.	.20	.10
B. M. sheet piling and timber (exclusive of bed blocks and wedges) that may be left in the work by order of the engineer	10,000 ft.	40.00	40.00
Wrought iron or steel installed complete in place	6,000 lbs.	.05	.04
Totals		$520,282	$519,745

CIVIL SERVICE EXAMINATIONS

INSPECTOR OF HULLS.—Evansville, Ind.—U. S. Civil Service Commission announces an examination on Jan. 3-4, 1906, to fill a vacancy in the position of local inspector of hulls of steam vessels at Evansville, Ind., at $1,500 per annum, and vacancies as they may occur in the positions of local and assistant inspector of hulls in the Steamboat-Inspection Service throughout the United States.

SCIENTIFIC ASSISTANT.—U. S. Civil Service Commission, Washington, D. C., announces an examination to be held on Jan. 10-Jan. 11, 1906, to fill a vacancy in the position of scientific assistant in library science (qualified to translate French and German), at $840 per annum, in the Department of Agriculture, and vacancies as they may occur in that Department requiring similar qualifications.

STEAM ENGINEERS, ETC.—Albany, N. Y.—The State Civil Service Commission announces examinations to be held on Jan. 13, 1906, for the following positions in the state and county service: Assistant in Microscopy, Cancer Laboratory, Buffalo, $720; Steam Engineer and Assistant in State hospitals, departments and institutions in the county service of Albany, Erie, Monroe, Onondaga and Westchester Counties; Foreman of Fish Hatchery, $1,080; Inspector of Records and Accounts, State Board of Charities, $1,200 to $1,400; Milk Expert, Department of Agriculture, $800 to $1,000; Sanitary Agent, Department of Agriculture, $5 a day. Charles S. Fowler is Chief Examiner of Commission, at Albany.

INDUSTRIAL NOTES.

THE AMERICAN PRODUCTION CO., Reynoldsville, Pa., manufacturer of presses and shears for sheet metal and plate work, also manufacturer of light structural steel and sheet metal work, has been purchased by C. F. Dickinson, J. S. Beckwith and O. L. Schlumpf, of Pittsburgh. The company, a $300,000 corporation, was granted a Pennsylvania charter in April, 1904, and the business will be conducted under this charter, application having been made to have the name of the new company changed to the Pittsburgh Industrial Iron Works. The new company will manufacture and deal in engines, boilers and general contractors' and rolling mill machinery, in addition to a machine and general foundry trade, including brass foundry work. The plant consists of four fireproof buildings of steel frame construction with hollow tile walls, cemented tile roofing, metal window frames and steel doors. The foundry and machine shop are under one roof, the building being 75 x 275 ft., commanded by a 10-ton Northern Engineering Co.'s crane, the foundry containing a 10-ton Newton cupola. The main building is 65 x 300 ft., and will be used as a general shop and blacksmith shop and will be equipped with up-to-date boiler shop tools. Power for operating the machinery is furnished by one 275 KW. Westinghouse generator direct connected to a Buckeye engine. A 50 KW. Westinghouse generator furnishes power to operate the crane in the foundry. The power equipment includes two 150-HP. horizontal tubular boilers. The pattern shop is a fireproof building 25 x 50 ft., equipped with modern wood working tools. A 2-story building 26 x 40 ft. contains the works, offices and drafting rooms, the general offices being located at 1218 and 1219 Westinghouse Bldg., Pittsburgh. The plant is located near the DuBois blast furnaces, the Punxsutawney Iron & Steel Co.'s furnaces and the furnaces of the Kittanning Iron & Steel Mfg. Co. It is also within a few miles of the B., R. & P. Coke Ovens and has a coal mine about a half mile distant from the plant. Shipments can be made over the B., R. & P. or the B. & A. V. R. R. C. F. Dickinson is President; J. S. Beckwith, Secretary and Treasurer; and O. L. Schlumpf, General Manager and Chief Engineer. Mr. Dickinson was formerly Vice-President of Thos. Carlin's Sons Co., Allegheny; J. S. Beckwith was General Sales Manager and Purchasing Agent; and O. L. Schlumpf was Chief Engineer and Superintendent of the same company.

THE NATIONAL DRILL & MFG. CO. announces that it has disposed of its road machinery and its earth-handling business to the Indiana Road Machine Co., of Fort Wayne, Ind., who will continue the manufacture and supply as may be needed of repair parts to the trade for the National reversible road machine, National elevating grader, National dump wagon, National rock crusher and accessories, National road roller. The Indiana Road Machine Co. has been engaged in the manufacture and sale of road-making and earth-handling machinery for many years. The Indiana Road Machine Co. announces that it has recently acquired possession of the business of the National Drill & Mfg. Co. relating to reversible road machine, elevating grader, dump wagon, rock crusher and accessories, and road roller.

THE CONTRACTORS' SUPPLY & EQUIPMENT CO., of Chicago, reports that during this year and up to Dec. 8 it has sold 589 Smith concrete mixers. A banquet was held on that date to celebrate the passing of the 500 mark. The first of these machines was made in 1900; 47 were sold in 1901, about 155 in 1902, 285 in 1903, 375 in 1904, and 589 up to Dec. 8, 1905. These figures do not include about 75 machines sold in foreign markets. At the banquet a silver loving cup was presented to Mr. T. L. Smith, President of the company and inventor of the Smith concrete mixer. The management gives great credit for the rapid success in putting this mixer on the market to the liberal use of the advertising columns of the technical and trade papers.

L. B. STILLWELL AND JOHN VAN VLECK announce the removal of their electrical and general engineering offices to 100 Broadway, New York.

JOHN F. ALLEN, New York, has announced that the only agents authorized to sell the Allen Riveting Machines are Joseph T. Ryerson & Sons, Scully Steel & Iron Co., Baird Machinery Co., A. B. Bowman, Berger, Carter Co., and the Fairbanks Co.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 216.

WATER-WORKS IMPROVEMENTS.

NOTICE TO CONTRACTORS.—City of Albany, N. Y., Board of Contract and Supply.

Sealed proposals will be received by the Board of Contract and Supply, at its office in the City of Albany, N. Y., until 3 o'clock P. M., Monday, January 15, 1905, for Contract No. 2, Improvement of Water Supply, for Pumping Engines at the Quackenbush Street Station.

The work consists in designing, constructing, erecting and maintaining for a period of one (1) year either one (1) or two (2) vertical, triple expansion, condensing, crank-and-fly-wheel pumping engines, with all appurtenances thereto. Each engine shall have a capacity of ten million (10,000,000) gallons per twenty-four hours against a total dynamic head of three hundred and fifteen (315) feet. The place of erection will be the Quackenbush Street Pumping Station, located at the corner of Quackenbush and Montgomery streets, in the City of Albany, N. Y.

Each bid shall be inclosed in a sealed envelope and delivered to said Board at its meeting held at the time and place aforesaid, at which meeting the bids will be publicly opened and read, and the award of the contract made as soon thereafter as practicable. All bids must be indorsed "Pumping Engines at Quackenbush Station," with the name and place of the bidder.

Drawings may be seen at the office of proposal, specifications, contract bond obtained at the office of the Contract and Supply or at the Bureau, No. 25 Quackenbush Street, Albany, N. Y.

Proposals for the work must be made on the printed blank provided for the purpose.

Each proposal must be accompanied by a certified check drawn upon a national bank in the City of Albany or a national bank in the City of New York, for ten thousand ($10,000) dollars, payable to the order of the Treasurer of the City of Albany, or a check deposited by the bidder to the contract is awarded, shall be forfeited if said bidder shall fail, within ten days after such award, to execute the contract and deliver the bond hereinafter required. The checks deposited by the unsuccessful bidders will be returned after the award of the contract.

The successful bidder, to whom the contract is awarded, will be required to execute a good and sufficient bond of indemnity of a duly authorized guarantee company to the amount of one-half (½) the amount of the contract as security for the faithful performance of all the covenants and agreements on the part of the Contractor contained in the contract and specifications, including one year's maintenance of the engine or engines as specified.

The guarantee company making such bond will be subject to the satisfaction and acceptance of the Board of Contract and Supply.

The right is reserved to reject any or all bids.

Dated Albany, N. Y., December 15, 1905.

ISIDORE WACHSMAN,
Clerk of the Board.

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REPRINTS FROM ENGINEERING NEWS FREE

The following short articles, which recently appeared in ENGINEERING NEWS, have been reprinted, and one of the reprints will be sent to anyone who will send us a few items regarding proposed construction work for noting in our news columns:

"Data of Roads and Pavements in Iowa," by Prof. A. Marston, of the Iowa Univ.

"Itemized Bids for Furnishing the Material and Erecting the Large Filtration Plant in Pittsburg, Pa."

"Desirable Entrance Requirements for Engineering Colleges," by Prof. Wm. Kent, of Syracuse University.

"The College Education of the Engineer," by Prof. Wm. Kent.

"Editorial on the Panama Canal Question," from Engineering News, of Dec. 14, 1905.

"Safeguarding of Life in Theatres" Presidential address of John R. Freeman, before the Am. Soc. of Mech. Engrs.

"How to Draw Specifications which will Shut Out Competition, etc.," and "Twice Told Proverbs for Engineers."

"A New Way of Advertising for Help," from *Printers' Ink*. (A suggestion to employers saving time and money.)

Send in a few news items and get one of these reprints.

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